

Via Electronic Mail and UPS

March 31, 2017

David Turin
U.S. Environmental Protection Agency
5 Post Office Square – Suite 100
Mail Code: OES04-3
Boston, MA 02109-3912

Re: Hull WPCF Capacity, Management, Operation and Maintenance ("CMOM") Program

Implementation Annual Report

Town of Hull, MA Administrative Order on Consent, Docket No. CWA-01-AO-16-09

Dear Mr. Turin:

As identified in the Administrative Order on Consent (AOC), Woodard & Curran, on behalf of the Town of Hull is hereby submitting the Hull Water Pollution Control Facility (WPCF) CMOM Program Implementation Annual Report for your review, comment and/or approval.

This report also serves as the fulfillment of the NPDES annual reporting requirements for the WPCF (NPDES Permit No. MA0101231). Woodard & Curran began operation and maintenance of the WPCF on April 1, 2015, and records are included from January 1, 2016 through December 31, 2016.

Sincerely,

WOODARD & CURRAN

tearly Cavalini

Frank J. Cavaleri Senior Principal

FJC/klr

Enclosures:

cc: David Burns, MassDEP Southeast Regional Office

Philip Lemnios, Town Manager, Town of Hull

John Struzziery, P.E., Director of Wastewater Operations, Town of Hull

Aram Varjabedian, Project Manager, W&C Kate Roosa, EIT, Plant Engineer, W&C

PN: 217319



CMOM ANNUAL REPORT

Calendar Year 2016

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217319.00 **Town of Hull, MA** March 2017



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EXECUTIVE SUMMARY

Woodard & Curran holds a professional services contract for the operation and maintenance of the Water Pollution Control Facilities (WPCF) for the Town of Hull. Woodard & Curran (Contract Operator) began operation of the Hull WPCF facility on April 1, 2015.

Woodard & Curran has prepared this Capacity Management Operation and Maintenance (CMOM) Annual Report to serve as a summary of maintenance and operation activities performed during 2016 to the Town of Hull's Wastewater System. The purpose is to document progress as required by the Administrative Order on Consent (AOC) and fulfill NPDES permit requirements for reporting I/I minimization.

This report includes the following AOC deliverables:

- 1. A detailed description of the actions taken during the previous calendar year to address any action items included in the CMOM Corrective Action Plan, including updates to the CMOM Program Manual.
- 2. A description of the actions that will be taken during the current calendar year to address any action items included in the CMOM Corrective Action Plan.
- 3. A summary listing of all unauthorized discharges that have occurred during the last calendar year, in accordance with the NPDES Permit Section D.1.
 - a. A report of any infiltration/inflow related corrective actions taken, as a result of unauthorized discharges reported pursuant to 314 CMR 3.19(20) and NPDES Permit Part 1, Section D.1.
- 4. A map or maps of the Town's Collection System showing the location of each unauthorized discharge included in the summary listing;

And the following NPDES permit deliverables:

- 5. A map and a description of inspection and maintenance activities conducted and corrective actions taken during the previous year.
- 6. Expenditures for any infiltration/inflow related maintenance activities and corrective actions taken during the previous year.
- 7. A map with areas identified for I/I-related investigation/action in the coming year.
- 8. An estimate of the annual average I/I and the maximum month I/I for the reporting year.



1. COMPLETED PROJECTS

1.1 AOC Deliverables

The following AOC deliverables were completed:

- Unauthorized Discharge Summary July 31, 2016
- Emergency Response Plan August 31, 2016
- I/I Summary Plan August 31, 2016
- CMOM Self-Assessment October 31, 2016

A copy of the CMOM Self Assessment is included in Appendix A, to provide details about on-going CMOM improvement work during 2016 and 2017.

1.2 CMOM Activities

During 2016, both the Town Sewer Department and Contract Operator performed corrective and preventative maintenance of the collection system, including:

- Grinder pump customer service and corrective action
- Abatement of Unauthorized Discharges
- DigSafe utility marking
- Manhole and pipe inspections
- Repair of the Pump Station 3 forcemain discharge
- Cleaning, CCTV and manhole repair work on Atlantic Avenue (near Pump Station #1)
- Implemented Hydrogen Sulfide (H2S) and Fats, Oils and Grease (FOG) reduction programs:
 - In-pipe bacteria addition of 20 locations; to grow non-sulfide generating bacteria to breakdown FOG within the Pump Station wet-wells and gravity system.
 - Installation of wet-well aerators to all Pump Stations, to break up FOG and reduce build-up between cleanings.
 - Introduction of Ferrous Chloride to Interceptor at Pump Station #6 during Summer months to control downstream H2S.

A summary of the 2016 completed SEMS Work Orders and sample DoForms reports are attached in Appendix B. This is a summary of the completed work orders for the collection system, including the pump stations, and summarized by Asset Name. Improvements were made over the course of the year to track work orders at the asset level by streamlining the unique system (e.g. asset ID numbers). The 2016 total expenditures for CMOM and I/I are summarized in Appendix C.

Contract Operator continued to utilize sewer system GIS, adding assets and documenting locations to verify and update the GIS database. To assist with this work, a GPS X-4 Unit was purchased for the facility and is being used to update



the asset locations in the GIS system. DoForms, SEMS and GIS tools are being utilized for asset management, and upcoming plans to improve reporting is outlined in Section 3 as a part of upcoming AOC deliverables.

1.3 Unauthorized Discharges

There were nine unauthorized discharge events documented in 2016 (locations shown in Figure 1 below). There were two unauthorized discharges at the WPCF, one unauthorized discharge at Pump Station #3, and three sanitary sewer overflows (SSO's). An additional three SSO's were reported by WPCF staff, but during inspection, found to be privately owned. These SSO's were delegated to the Town of Hull Board of Health to complete follow-up inspections. Brief descriptions as well as current status of each unauthorized discharge are listed in chronological order below, and the full Unauthorized Discharge Summary Table can be found in Appendix D.

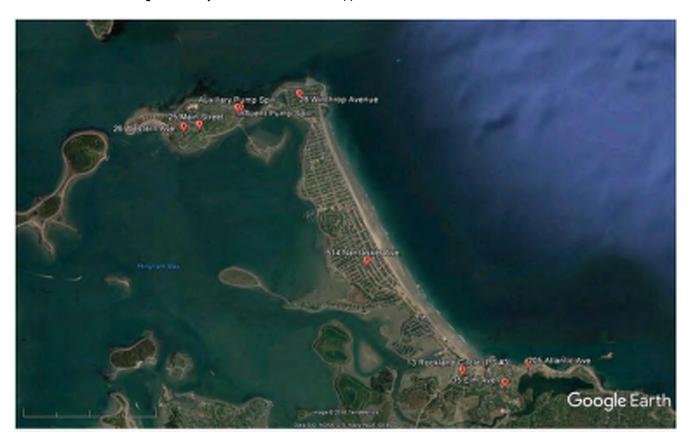


Figure 1: Map of Unauthorized Discharges in 2016

25 Main Street

Status: Abated: Board of Health

On February 15, a resident contacted W&C to report a home back-up. Upon inspection, the street line was running appropriately and no further action was taken. On February 17, a second call by the homeowner was placed for another back-up. The main sewer line was running normally, and it was found that the service lateral was leaking. On February 19, W&C was notified of the cause of the overflow. There was a service cleanout whose cap had been removed causing spillage into the yard. Based on the wet ground evidence surrounding the cleanout port, about 5 – 10 gallons was spilled no further than 10-15 feet downhill of the cleanout. A local contractor was contacted to clean the lateral and repair the missing cleanout cap. This event was not related to the POTW.



Pump Station #3 (13 Rockland Circle)

Status: Closed; Awaiting Valve Replacement

On March 15, during forcemain isolation valve exercise, the valve broke in the open position. Approximately two gallons of wastewater was released on the ground surface and eight gallons were released in the valve box. The area where the spills occurred were disinfected with lime. The subcontractor stopped the leak by closing the valve actuator, but the valve remains broken and has been added to the Corrective Action Plan scope of work.

28 Winthrop Avenue

Status: Abated

On March 29, a local plumber reported a back-up while attempting to snake-out service connection at this home. There was approximately 25 – 50 gallons of wastewater released into the home. After WPCF staff responded, the manholes in the street were inspected and debris/grease was found in MH20169. Staff drained the manhole, and Rosano Davis Septic Pumping (RD) cleaned it. Basement was cleaned by same company; no other follow up service was scheduled.

WPCF (1111 Nantasket Avenue)

Status: Abated.

On April 14, auxiliary pump piping was being removed and the 12" drain line had not been emptied into a process tank. Therefore, approximately 50 – 75 gallons of sewage overflowed onto the grassy area which was treated with lime. The auxiliary pump SOP was updated to include proper draining of suction and discharge lines, and the pump has since been removed from service.

514 Nantasket Avenue

Status: Closed: Board of Health

On May 14, WPCF staff were notified of a potential spill on the driveway between 510-520 Nantasket Ave. Upon further investigation, it was determined that the blockage was occurring on private property, as the main line was running at normal levels. Later it was confirmed by the Board of Health that sewage backed from a basement grease interceptor, and sump pump in basement pumped out liquid to the outside driveway area. Some of this water made it to nearby MS4 catch basin, which may have drained to the Atlantic Ocean, but exact quantity and exact cleanup methodology is unknown. This event was not related to the POTW.

35 Elm Avenue

Status: Abated; Board of Health

On June 7, staff responded to a sewer back-up in a home. Upon further inspection, the privately-owned grinder pump malfunctioned and caused overflow into basement. The Board of Health was contacted, and RD responded on June 7 to pump out the home and returned on June 8 to repair the grinder pump. This event was not related to the POTW.

WPCF (1111 Nantasket Avenue)

Status: Abated

On July 26, while exercising the influent pumps, the wet-well reached high level and triggered multiple pumps to turn on, and the primary distribution box was surcharged immediately. Once the spill was realized, the gates were shut immediately and lime was applied to the ground where the flow had spilled onto the ground. The Pump Exercise SOP was modified accordingly, and no more than 10 gallons were spilled.



205 Atlantic Avenue

Status: Abated

On December 19, Hull Assistant Building Inspector, Bart Kelley, notified Hull WPCF of overflowing sewer manhole near 205 Atlantic Avenue. Upon arrival, the crew contacted RD septic company to pump the surcharged sewer line. The road surface was vacuumed and adjacent areas were cleaned and lime was applied. After the line was drained, and peak flow subsided, the main sewer line was jetted and five manholes were inspected.

26 Western Avenue

Status: Abated

On December 30, Hull WPCF staff responded to a sewer back-up at 26 Western Avenue. Upon arrival, it was determined that sewage was backing up into a detached garage. After further investigation, the upstream manhole was found to be surcharged and the downstream manhole was found to be flowing freely. On January 5, 2017, HUB Construction and RD returned to unplug blockage in sewer pipe, and install cleanout port for improved maintenance outlet.



2. ANNUAL AVERAGE AND MAXIMUM MONTH I/I ESTIMATES

As noted during the AOC Update meeting on February 14, 2017, the 2015 I/I Control Plan showed inconsistent I/I calculations compared to previous years' reports. After further review, it was determined that 2015 flows were misrepresented, and they are included with 2016 I/I estimates in Table 1 below.

	Average Annual (MGD)	Maximum Month (MGD)	Average Daily Flow (MGD)	Annual Rainfall (inches)
2002 – 2012*	0.3 – 0.5	0.5 – 0.83	1.55 – 1.9	-
2015	0.51	1.65	1.57	26"
2016	0.46	1.05	1.45	29"

Table 1: I/I Estimates

Daily WPCF Effluent Flow and Precipitation data was exported from the WPCF's Hach® WIMS™ data management system. I/I estimates were calculated by reviewing the Highest and lowest 7-day moving averages in comparison to the Base Sanitary Flow (BSF) during the same timeframe. While rainfall increased during this calendar year, the I/I values were expected to be lower due to a decrease in groundwater levels. Massachusetts has been in a sustained drought, and July through December 2016 experienced a State-issued Drought Emergency. Figure 2 below shows the decrease in groundwater level for Southeastern Massachusetts in 2016.

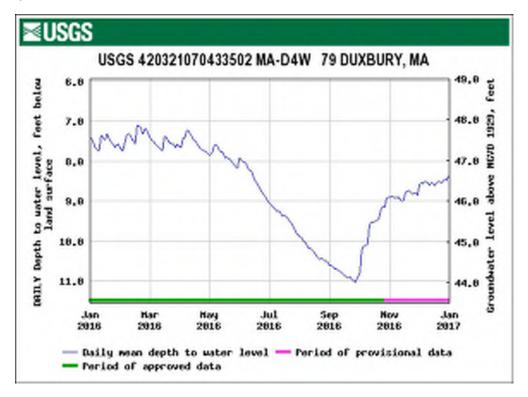


Figure 2: 2016 Groundwater Monitoring Data, USGS

^{*}Historical reports used as reference for 2015 -2016 I/I Calculations



3. PLANNED CMOM AND I/I PROJECTS

3.1 AOC and Asset Management Deliverables

In keeping with the MassDEP Asset Management Grant program deadline, and the December 21, 2016-dated revision to the AOC reporting deadlines, the following deliverables will be completed in 2017:

- Asset Management Grant (Mass DEP) May 31, 2017
- CMOM Program Manual June 30, 2017
- CMOM Corrective Action Plan (including WPCF Rehabilitation Schedule) July 31, 2017

3.2 CMOM Activities

As a part of collection system operations, manhole inspections will be performed on a regular basis during homeowner backup calls, and in coordination with sewer cleaning/CCTV efforts. The DoForms reporting platform has been recently updated to NASSCO MACP Level 1 Inspection protocol, complete with photo attachment capabilities. This information will be included in GIS for streamlined asset inspection information. As stated in the 2015 I/I Control Plan, the following improvements to the infiltration and inflow reporting system will be continued this year:

- Utilization of insertion flow meters
- Addition of local tidal and groundwater data to Hach® WIMS™
- Feasibility of incorporating salinity meters in the collection system
- Continued support of Hydrogen Sulfide (H2S) and Fats, Oils and Grease (FOG) reduction programs:
 - o In-pipe bacteria addition of 20 locations; to grow non-sulfide generating bacteria to breakdown FOG within the Pump Station wet-wells and gravity system.
 - Installation of wet-well aerators to all Pump Stations, to break up FOG and reduce build-up between cleanings.
 - Introduction of Ferrous Chloride to Interceptor at Pump Station #6 during Summer months to control downstream H2S.

3.2.1 Cleaning and CCTV

This spring, immediate cleaning and CCTV inspections will be performed in the following areas:

- Nantasket Avenue from A St to XYZ Streets (MH 20424 to MH 20221).
- Fitzpatrick Way from XYZ Streets to bridge crossing.
- Fitzpatrick Way (at Pt Allerton Ave.) to Spring Street and Nantasket Avenue.

After completion of the CCTV inspection, engineering review will provide an updated condition assessment of the Interceptor and prioritize the need for pipeline renewal projects. See Figure 3 for the map of Cleaning and CCTV areas, as well as the targeted flow assessment areas of Pemberton and Atlantic Avenue.



3.2.2 Flow Assessment

Several insertion flow meters will be utilized to provide subsystem flow data for the Gunrock (Pump Station #1 subsystem) and Pemberton (Pump Station #9 subsystem) areas. Flow assessment data, CCTV, and manhole inspection data will help identify, prioritize, and correct sources of potential I/I to the collection system.



Figure 3: 2017 Planned CCTV and Flow Assessment Scope



APPENDIX A: CMOM SELF-ASSESSMENT CHECKLIST

Attachment United States Environmental Protection Agency, EPA New England

Wastewater Collection System CMOM Program Self-Assessment Checklist			
Name of your system	Hull Water Pollution Control Facility	DateO	ctober 31, 2016

Put an "A" in the final column for an issue you intend to address with future action, or leave blank if you have evaluated your program as sufficient.

I. General Information - Collection System Description

I	Question	Respon	ise					*Act
1	How many people are served by your						own of Hull	
	wastewater collection system?	has 10,2	293 people	served and	l in Hingh	am and C	Cohasset,	
		approxi	mately 93	6 people are	e served. F	Peddocks	Island, part	
		of the E	Boston Har	bor Islands	State Parl	k, also dis	scharges	
		small fl	ow to the	Hull Sewer	System (<	<100 user	s).	
		Combin	ned there is	s a total ser	vice popul	ation of a	about	
		11,330.						
2	What is the number of service	Hull ha	s 4,809 sei	vice conne	ctions (inc	luding 4,	497 from	
	connections to your collection system?			n Hingham				
	How many:			040 manhol				
	Manholes? Pump stations?		•				m 4" to 36").	
	Feet (or miles) of sewer? Force mains?			of low pre				
	Siphons?			l grinder pu				
				dent owned				
				ranging in s				
				ength of for				
							ch station).	
				on consisti				
				constructed	•			
			_	48" draina	_	•		
		intercer			8			
		· ·						
		Name	Location	Generator	Design Capacity (gpm)	Approx . Age (years)	Forcemain Size/Lengt h	
		L.S. A	Valley Beach Rd.	No*	200	20	4"/840 ft.	
		P.S. 1	Atlantic Ave.	Yes	450	35	8"/2,050 ft.	
		P.S. 3	George Washingt on Blvd.	Yes	1700	35	14"/4,625 ft.	
		P.S. 4	Marginal Rd.	Yes	800	35	8"/1,000 ft.	
		P.S. 5	Draper Ave.	Yes	1600	35	14"/530 ft.	
		P.S. 6	L St. Playgrou nd	Yes	670	22	6"/60 ft.	
		P.S. 9	Main St. High School	Yes	650	35	10"/5,030 ft.	
		*Transfe	er Switch, po	rtable generat	or connection	n and portal	ble generator	

^{*} Put an "A" in the final column if this is an issue you intend to address with future action.

4	What is the age of your system (e.g., 30% over 30 years, 20% over 50 years, etc.)? What type(s) of collection system map is/are available and what percent of the system is mapped by each method (e.g., paper only, paper scanned into electronic, digitized, interactive GIS, etc.)? When was the map(s) last updated?	Significant portions of the collection system date back to the turn of the century. The system is a "separate" sanitary sewerage system, but some sewers are documented back to the 1860's. Over 50% of the collection system has been constructed since 1977, making the average age of the collection system over 40+ years old. A digitized interactive sewer system GIS database and map was created by scanning and digitizing paper plans covering about 85 to 90% of the town's sewers, forcemains and pump stations. The GIS map/database was mostly based on the 1986 CDM sewer system map/plan. GIS mapping and attribute data is being updated and supplemented on an annual basis during the Town's annual system pipeline and manhole inspections using a GPS unit and smartphone/tablets. The base GIS map has yet to incorporate the recent data gathered in 2015 and 2016, but it is expected that through the Town's annual updates, it will develop a complete, accurate sewer system GIS database and map.	A
5	If you have a systematic numbering and identification method/system established to identify sewer system manhole, sewer lines, and other items (pump stations, etc.), please describe.	Yes. According to the Kleinfelder GIS mapping system, manholes, sewer lines, forcemain and pump stations are identified. The GIS map is online and available in the field; field data is gathered with the goal of updating the GIS map on an ongoing basis.	A
6	Are "as-built" plans (record drawings) or maps available and used by field crews in the office and in the field?	Hull has "tie-in cards" for approximately 3,240 of the 4497 Hull connections. For gravity sewer lines, forcemains and pump stations, there are GIS locations, available through an online GIS web mapping profile created by Kleinfelder. There are paper drawings for many sewer projects available at the wastewater facility, and these are utilized or referenced by field crews on as needed basis.	A
7	Describe the type of asset management (AM) system you use (e.g. card catalog, spreadsheets, AM software program, etc.)	The current asset management system utilizes several technology tools; including DoForms, SEMS Technologies CMMS, and the GIS system combined with Excel spreadsheets (inventories, calculations).	A

II. Continuing Sewer Assessment Plan

II	Question	Response	*Act
1	Under what conditions, if any, does the collection system overflow? Does it overflow during wet and/or dry weather? Has your system had problems with: hydraulic issues, debris, roots, Fats, Oils & Grease (FOG), vandalism blockages resulting in manhole overflows, basement backups, other (specify)? Describe your system's history of structural collapses, and PS or force main failures.	Collection system overflows occur mostly during wet weather events, and the system does not typically experience overflows during dry weather. The collection system has had some problems with structural sewer line and manhole failures, as well as forcemain failures, in addition to backups caused by debris, FOG, and basement backups. However, the hydraulic limitations in the collection system and the WWTP are a concern only during extreme flow events or infrastructure failures. Pump Station losses - there have been no pump station losses that have caused sewer overflows in the past couple of years, except for the forcemain issues discussed below.	

^{*} Put an "A" in the final column if this is an issue you intend to address with future action.

		Structural collapses – some corrosion/deterioration of sewers and manholes have occurred in the past causing structural defects that needed to be repaired. Forcemain failures – The forcemain for PS 9 corroded and	
		was replaced in 2011 with a new HDPE Forcemain. The forcemain for PS 4 had a break and required repair in early 2014. This forcemain has failed multiple times over the years. 15 feet of the end of the forcemain for PS 3 was lined in the summer of 2016 due to corrosion issues. The manhole and reinforced concrete pipe ("main interceptor") where the forcemain for PS 3 discharges,	
2	How many SSOs have occurred in each of the last three calendar years? What is the most frequent cause?	collapsed in 2002/2003 and required an emergency repair. During the last three years, there have been 29 SSOs (15 in 2013, 5 in 2014 and 9 in 2015). The most frequent cause is mechanical failure, blockages and secondary sludge spills.	
3	Of those SSOs, how many basement backups occurred in each of the last three calendar years? How are they documented?	During the last three years (2013, 2014 and 2015), there has been one documented basement backup. It was documented as an SSO, according to plant records, which are typically documented through daily reports and annual monthly reports.	
4	What is the ratio of peak wet-weather flow to average dry-weather flow at the wastewater treatment plant (or municipal boundary for satellite collection systems)?	The ratio of peak wet weather flow to average dry weather flow is approximately 4.5. For rare, extreme events, ratios as high as 8 (or more) have been observed. The average flow at the plant is 1.7 MGD.	
5	What short-term measures have been implemented or plan to be implemented to mitigate the overflows? If actions are planned, when will they be implemented?	Short term measures that have been implemented include improving the sludge transfer process, prioritizing repairs based on work order comment conditions to reduce mechanical failures, SSO logging improvements, utilization of backup bypass pump systems, and improved photo/follow-up work order documentation through use of tablets and SEMS system.	A
6	What long-term measures have been implemented or plan to be implemented to mitigate the overflows? If actions are planned, when will they be implemented?	Long term measures that are in planning include utilizing portable backup pumps as well as permanent backup pumps and improving the general O&M and asset management procedures for the collection system. Long term measures will be discussed further in the CMOM Corrective Action Plan.	A
7	Describe your preventive maintenance program; how do you track it (e.g., card files, electronically, with specific software)?	The preventative maintenance software program SEMS incorporates work orders generated by plant staff from identification of a task, through work progress to completion and reminders. Preventative maintenance work orders are scheduled on a regular basis, and can be assigned to specific operators for completion. Then, the records can by linked to monthly and annual reports.	
8	How do you prioritize investigations, repairs and rehabilitation? What critical and priority problem areas are addressed more frequently than the remainder of	The Town inspected and assessed its Reinforced Concrete Pipe (RCP) sewer " <i>main interceptor</i> " pipeline and manholes in 2004 and 2009. From these assessments, Kleinfelder engineers recommended renewal of	A

^{*} Put an "A" in the final column if this is an issue you intend to address with future action.

	your system? How frequently are these areas evaluated?	approximately 12,300 liner feet of interceptor pipeline based on interceptor segments with PACP structural ratings equal to or greater than 4. The poor structural condition was a result of hydrogen sulfide induced corrosion to the internal pipe wall. The recommended renewal project was executed through two construction contracts in 2005 and 2010 with an associated cost of \$2.13 Million (in 2005/2010 dollars). The reported cost included construction and engineering, but not the cost of performing the assessments. The two contracts consisted of cured-in place pipelining (CIPP) of approximately 55% of the sewer interceptor, which ranged between 14 and 36 inches in diameter; as well as renewal of 15% of the interceptor manholes. There have been preliminary evaluations since Woodard & Curran has taken over the Operations and Maintenance of the WWTF in May of 2015, such as evaluating major assets and risk assessment of major forcemain sections. However, a formal strategy and plan of assessment needs to be addressed. The current operations contract with W&C provides some guidance and quotas for performing routine inspection and cleaning of the collection system, including recommended annual quotas for sewer CCTV, sewer cleaning, manhole inspections, grinder pump replacement and wet well cleaning. These inspection and cleaning quotas will be reevaluated and reprioritized as part of the CMOM Corrective Action Plan.	
9	Are septage haulers required to declare the origin of their "load"? Are records of these declarations maintained? Do any of the declarations provide evidence of SSOs?	No septage is accepted at this time. Landfill leachate from a Cohasset construction material landfill, that was historically trucked to the site for treatment, ceased prior to May of 2015.	

III.A. Collection System Management Organizational Structure

IIIA	Question	Response	*Act
1	Do you have an organizational chart that shows the overall personnel structure for collection system operations, including operation and maintenance staff? Please attach your chart.	Yes. Woodard & Curran has an organizational chart (attached) which outlines the Town and Contract Operator staffing plan and the relationship between the organizations.	
2	For which jobs do you have up-to-date job descriptions that delineate responsibilities and authority for each position?	All of the Woodard & Curran positions have updated job descriptions and authority requirements.	
3	How many staff members are dedicated to collection system maintenance? Of those, how many are responsible for any other duties,	The Contract Operator has a staff of 6 full time, plus technical support staff, to oversee the wastewater system, both collections and treatment facility operation and maintenance. There are 2 summer interns and other part-	

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	(e.g., road repair or maintenance, O&M of the storm water collection system)? If so, describe other duties.	time support staff as well. The W&C staff also oversee the operation of the D Street storm water pump station.	
4	Are there any collection system maintenance position vacancies? How long has the position(s) been vacant?	There are no vacancies at this time.	
5	For which, if any, maintenance activities do you use an outside contractor?	Outside contractors are used for: - Sewer Jetting - Sewer Cleaning - CCTV - Repairs - Wet Well cleaning	
6	Describe any group purchase contracts you participate in.	The Contract Operator participates in several group purchase contracts, such as USA Bluebook, Wind River and Waterline Industries.	

III.B. Collection System Management: Training

IIIB	II.B. Collection System Management: Question		*Act
		Response	"ACt
1	What types of training are provided to staff?	Safety and technical training are provided to staff regularly in accordance with Contract Operation requirements and MA DEP Operator Certification requirements. Both inhouse specialty training and external resources are utilized.	
2	Is training provided in the following areas: general safety, routine line maintenance, confined space entry, MSDS, lockout/tagout, biologic hazards, traffic control, record keeping, electrical and instrumentation, pipe repair, public relations, SSO/emergency response, pump station operations and maintenance, trench/shoring, other (describe)?	Yes. On a monthly basis, staff are required to participate in a safety meeting PureSafety training. Safety training topics include: - Hazard Communication (safety data sheets) - Biologic Hazards - Defensive Driving - Lockout/tagout - Fall Protection - Ergonomics Annual (or as needed) in-plant training is provided for the following items: - General Safety - Pump Station Operations and Maintenance - SSO/Emergency Response/EAP - Routine line maintenance - Confined space entry - Electrical and instrumentation	
3	Which training requirements are mandatory for key employees?	All monthly training items listed above are mandatory for key employees. Additional programs such as forklift training or Qualified Electrical Workers are required for employees who utilize those pieces of equipment.	
4	How many collection system employees are certified (e.g, NEWEA certification program) and at what grade are they certified?	The Contract Operator Project Manager has a NEWEA Grade 3 Collections System certification. All O&M Staff have the appropriate Mass DEP Wastewater Certifications, and some of the staff have National Association of Sewer System Cleaning Operators (NASSCO) Pipeline Assessment and Certification Program (PACP) certification. One current on-site staff, one technical support staff and the Town of Hull DPW Director are NASSCO/PACP certified.	

^{*} Put an "A" in the final column if this is an issue you intend to address with future action.

	Collections system subcontractors who preform inspections are NASSCO/PACP certified.	

III.C. Collection System Management: Communication and Customer Service

IIIC	Question	Response	*Act
1	Describe your public education/outreach programs (e.g., for user rates, FOG, extraneous flow, SSOs etc.)	The Sewer Department mails "Down the Drain" newsletters biannually to rate payers with information ranging from introduction to plant activities to emergency management of grinder pumps. The Town also utilizes a webpage for Sewer Department information. We also provide facility tours, when requested, for school children, interns, etc.	
2	What are the most common collection system complaints? How many complaints have you received in each of the past three calendar years?	The most common complaints include sewer blockage/backup issues and odor complaints.	
3	Are formal procedures in place to evaluate and respond to complaints?	Hull Sewer Department Office receives calls for sewer related complaints and passes them on to the Contract Operator to respond, per Contract Requirements.	
4	How are complaint records maintained (i.e., computerized)? How are complaints tied to emergency response and operations and maintenance programs?	Complaint records are maintained through work orders generated in SEMS. When a call is received from the Sewer Department, the WWTF is asked to respond or address the complaint as determined by the Sewer Dept. office.	A

III.D. Collection System Management: Management Information Systems

IIID	Question	Response	*Act
1	How do you manage collection system information? (Commercial software package, spreadsheets, data bases, SCADA, etc). What information and functions are managed electronically?	Collection system information is managed by several database systems including SCADA, CMMS (SEMS Technologies coupled with DoForms) and Hach WIMS. SCADA provides real time information associated with the pump stations and stores the data for basic trending. Hach WIMS and the CMMS are used to manage the daily inspection data and maintenance activities for the entire wastewater system.	A
2	What procedures are used to track and plan collection system maintenance activities?	The CMMS system (SEMS Technologies and DoForms) is used to manage and document scheduled, non-scheduled and other maintenance activities (Corrective, Emergency Repair etc.).	
3	Who is responsible for establishing maintenance priorities? What records are maintained for each piece of mechanical equipment within the collection system?	The W&C Operations contract sets basic inspection and cleaning quotas for the collection system. These quotas were developed over 10 years ago and will be updated during the CMOM Corrective Action Plan. For pump stations, there is a wet well cleaning and inspection schedule set by the Contract Operator, which is fulfilled, logged and reported through the SEMS Work Order System. Grinder Pump inspections or maintenance history is maintained by the Town Sewer Department and the Contract Operator. If there are potential issues with the grinder pumps, the Sewer Department receives the call and	A

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		processes a Work Order request through the Contract Operator.	
4	What is the backlog for various types of work orders?	As of October 22, 2016, there are currently 319 backlogged work orders. 25% Collection System 75% Wastewater Treatment Plant	
5	How do you track emergencies and your response to emergencies? How do you link emergency responses to your maintenance activities?	Emergencies are typically processed as an emergency or high priority work order, classified by type. For example, if a blockage is reported at an address, then the inspection of the sewer line and manholes upstream and downstream are documented using a high-priority Manhole Inspection form and any subsequent high-priority work orders. There are separate emergency documentation procedures for SSO's, Grinder Pumps and Safety items. Follow up repairs and inspections are scheduled using Work Order reference number in SEMS database. All forms are completed electronically.	
6	What written policies/protocols do you have for managing and tracking the following information: complaint work orders, scheduled work orders, customer service, scheduled preventative maintenance, scheduled inspections, sewer system inventory, safety incidents, emergency responses, scheduled monitoring/sampling, compliance/overflow tracking, equipment/tools tracking, parts inventory?	The WWTF electronically tracks the following items using DoForms and SEMS: - Complaints - Scheduled Service - Customer Service - Scheduled Preventative Maintenance - Scheduled Inspections - Safety Incidents - Emergency Response - Compliance/Overflow Tracking The Contract Operator is in the process of updating the WWTF O&M Manual which will include an updated equipment and parts inventory tracking procedure.	A

III.E. Collection System Management: SSO Notification Program

IIIE	Question	Response	*Act
1	What are your procedures, including time frames, for notifying state agencies, health agencies, regulatory authorities, and the drinking water authorities of overflow events?	See response to item 2 below.	
2	Do you use the state standard form for recording/reporting overflow events? If not, provide a sample copy of the form that is used.	We use the MA DEP standard form for recording/reporting overflow events. Please refer to the ERP dated 8/26/2016 for specifics.	

III.F. Collection System Management: Legal Authority

Question	Response	*Act
Are discharges to the sewer regulated by a sewer use ordinance (SUO)? Does the SUO contain procedures for controlling and enforcing the following:	Yes. The Town of Hull Permanent Sewer Commission adopted the Sewer Use Ordinance in its current form 10/26/1987. The SUO includes procedures for controlling: - FOG	A
	Are discharges to the sewer regulated by a sewer use ordinance (SUO)? Does the SUO contain procedures for controlling and enforcing the	Are discharges to the sewer regulated by a sewer use ordinance (SUO)? Does the SUO contain procedures for controlling and enforcing the following: Yes. The Town of Hull Permanent Sewer Commission adopted the Sewer Use Ordinance in its current form 10/26/1987. The SUO includes procedures for controlling: - FOG - Building Structures over Sewer Lines

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2	□ Infiltration/ Inflow (I/I); □ building structures over the sewer lines; □ storm water connections to sanitary lines; □ defects in service laterals located on private property; □ sump pumps? Who is responsible for enforcing various aspects of the SUO? Does this party communicate with your	 Stormwater Connections Service Lateral Defects Sump Pumps Grinder Pumps Illegal Connections Enforcement of the SUO falls onto the Town of Hull, Chief Facility Manager (or designee) who communicates with the Contract Operator on a regular basis.	
3	department on a regular basis? Summarize any SUO enforcement	Currently inspections to identify sump pumps is covered by	A
	actions/activities that have occurred in the last three calendar years.	the Town bylaw that when a property is transferring ownership, that an inspection is done. Approximately 150 sump pump inspections are performed per year. We have only found a handful of ones that needed to be corrected – approximately 7 or 8.	
4	Do you have a program to control FOG entering the collection system? If so, which of the following does it include: □ permits, □ inspection □ enforcement? Are commercial grease traps inspected regularly and who is responsible for conducting inspections?	There is a policy in place about installing grease traps. There is currently not an inspection program.	A
5	Is there an ordinance dealing with storm water connections or requirements to remove storm water connections?	§149-17 of Hull SUO prohibits stormwater and all other unpolluted drainage from being discharged to sanitary sewers.	
6	Does the collection system receive flow from satellite communities? Which communities? How are flows from these satellite communities regulated? Are satellite flow capacity issues periodically reviewed?	Yes, there is an Inter-Municipal Agreement (IMA) with Cohasset and Hingham for customer tie in to existing services. For the IMAs, bills are based on water meter readings as provided from the Towns – the flows could be compared to the units billed.	
7	Does the collection system receive flow from private collection systems? If yes, how is flow from these private sources regulated? How are overflows dealt with? Provide details, including contact information for these private systems.	The collection system receives flows from private grinder pumps. For any problems brought to the attention of the Sewer Dept. related to these privately owned grinder pumps, the owners are directed to contact the local vendor, FR Mahoney.	

IV.A. Collection System Operation: Financing

IV A	Question	Response	*Act
1	Has an enterprise (or other) fund	A sewer enterprise fund has been established and it includes	A
	been established and what does it	wastewater collection and treatment operations – collection	
	include: wastewater collection and	system maintenance and debt payment for infrastructure	
	treatment operations; collection	improvements. A\$140K capital budget is included the	
	system maintenance; long-term	contracted operations and the Sewer Department budget	
	infrastructure improvements; etc.?	includes an additional \$200K. The Enterprise fund includes	

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	Are the funds sufficient to properly fund future system needs?	costs of administration and of items such as insurance and payments to the general fund for health insurance, pension, support for accounting, legal, treasurer/collector etc. There is a WWTF Capital Assessment underway, which will include collection system needs, to be presented to the Permanent Sewer Commission for attention.	
2	How are rates calculated (have you done a rate analysis)? What is the current sewer charge rate? When was it last increased? How much was the increase?	Rates are calculated by taking the total budgeted costs divided by the total number of 100 cubic foot units billed. Hull rates are then offset by rehabilitation fees, permits, and free cash balances. The current rate is \$11.34 and the Hull subsidized rate is \$9.42. This rate went into effect on billing starting 1/1/15-12/31/15 and received during fiscal year 2016. The percent increase was 42%. This increase was necessary as the debt to repair the plant from the failure came on line and the new 10-year contract with the plant operator resulted in increased costs.	
3	What is your O&M budget?	The O&M budget is \$3,026,000, not including debt service.	
4	If an enterprise fund has not been established, how are collection system maintenance operations funded?	N/A	
5	Does a Capital Improvement Plan (CIP) that provides for system repair/replacement on a prioritized basis exist? What is the collection system's average annual CIP budget?	We are currently doing an assessment of the plant and the collection system needs to develop a prioritized CIP. Implementation will be part of the CMOM Corrective Action Plan.	A
		Overall budget spent from 2005 to 2015 was an average of	

IV.B. Collection System Operation: Hydrogen Sulfide Monitoring and Control

6

How do you account for the value of

your system infrastructure for the

Board standard 34 (GASB 34)?

Government Accounting Standards

IV B	Question	Response	*Act
1	Are odors a frequent source of complaints? How many have been received in the last calendar year?	Odors are a frequent source of complaint as there are several immediate neighbors surrounding the WWTF. 33 complaints occurred during the last calendar year, with more than half occurring between May and August.	
2	Do you have a hydrogen sulfide problem, and if so, do you have corrosion control programs? What are the major elements of the program?	Hull has extreme hydrogen sulfide problems and related corrosion. This past summer we used (seasonal) ferric chloride addition in the collection system, installed wet well aerators and we are adding IN-PIPE bacteria to 20 locations within the collection system to reduce FOG and sulfides.	A
3	Does your system contain air relief valves at the high points of the force main system? How often are they	The collection system does not contain air relief valves at forcemain highpoints on any of the 7 main pump stations.	A

\$386,000 per year for collection system work.

line Depreciation is applied to the assets.

GASB 34 – annually major assets purchased during the

fiscal year are provided to the accounting office. Straight

^{*} Put an "A" in the final column if this is an issue you intend to address with future action.

inspected? How often are they exercised?	The grinder pump pressure lines need to be evaluated and inspected to determine the existence and condition of any air/vac relief valves.	

IV.C. Collection System Operation: Safety

IV C	Question	Response	*Act
1	Do you have a formal Safety Training	Yes. The Contract Operator has a formal safety program	
	Program? How do you maintain safety training records?	which outlines training, awareness and protection equipment	
	safety training fecords?	for all staff and contractors. Safety records are maintained	
		through specific location logs	
2	Which of the following equipment	□ rubber/disposable gloves; - YES	
	items are available and in adequate	□ confined space ventilation equipment; - YES	
	supply:	□ hard hats, - YES	
	□ rubber/disposable gloves;	□ safety glasses, - YES	
	□ confined space ventilation	□ rubber boots; - YES	
	equipment; □ hard hats,	□ antibacterial soap and first aid kit; - YES	
	□ nard nats, □ safety glasses,	□ tripods or non-entry rescue equipment; - YES	
	□ rubber boots;	□ fire extinguishers; - YES	
	□ antibacterial soap and first aid kit;	□ equipment to enter manholes; - YES	
	□ tripods or non-entry rescue	□ portable crane/hoist; - YES	
	equipment;	atmospheric testing equipment and gas detectors; - YES	
	☐ fire extinguishers;	□ oxygen sensors; - YES	
	□ equipment to enter manholes; □	□ H2S monitors; - YES	
	portable crane/hoist;	□ full body harness; - YES	
	□ atmospheric testing equipment and	□ protective clothing; - YES	
	gas detectors;	□ traffic/public access control equipment; - YES	
	□ oxygen sensors;	□ 5-minute escape breathing devices; - N/A	
	☐ H2S monitors; ☐ full body harness;	□ life preservers for lagoons; - N/A	
	□ protective clothing; □ traffic/public access control	□ safety buoy at activated sludge plants; - YES	
	equipment;	□ fiberglass or wooden ladders for electrical work; - YES	
	□ 5-minute escape breathing devices;	□ respirators and/or self-contained breathing apparatus; -	
	☐ life preservers for lagoons;	N/A	
	□ safety buoy at activated sludge	□ methane gas or OVA analyzer; - YES	
	plants;	□ LEL metering -YES	
	☐ fiberglass or wooden ladders for	LED metering - 1 Eo	
	electrical work;		
	□ respirators and/or self-contained		
	breathing apparatus;		
	□ methane gas or OVA analyzer;		
	□ LEL metering?		

IV.D. Collection System Operation: Emergency Preparedness and Response

IV D	Question	Response	*Act
1	Do you have a written collection system emergency response plan? When was the plan last updated? What departments are included in your emergency planning?	Yes, the Contract Operator developed a written Emergency Response Plan (ERP) in August 2016. Town Sewer Department, Town Manager, and Town Emergency Response Committee were coordinated with as a part of the plan.	
2	Which of the following issues are considered:	Within the Emergency Response Plan, all of the following issues are considered:	

^{*} Put an "A" in the final column if this is an issue you intend to address with future action.

	□ vulnerable points in the system, □ severe natural events, □ failure of critical system components, □ vandalism or other third party events (specify), □ other types of incidents (specify)?	 Vulnerable points in the system (critical pump stations to address immediately, low points in the collection system) Storm Events and Predicted High Flow Scenarios Backup Systems Initiation due to pump failure/generator use SSO's Internet/Electrical Outages Town of Hull Emergency Notification Procedures 	
3	How do you train staff to respond to emergency situations? Where are responsibilities detailed for personnel who respond to emergencies?	Staff is trained by holding Mock Storm Drills, as part of the mock drills we update ERP plan and review with staff. ERP defines responsibilities.	
4	How many emergency calls have you had in the past calendar year?	There have been 2 Emergency Calls in the past calendar year.	

IV.E. Collection System Operation: Engineering – Capacity

IV E	Question	Response	*Act
1	How do you evaluate the capacity of your system and what capacity issues have you identified, if any? What is your plan to remedy the identified capacity issues?	Capacity was evaluated previously in 1977, 1984 and 1998 the plant has adequate capacity for normal flow, but not for extreme flow events, such as the "No-Name" storm of 1991. Several requests have been submitted in the past to allow for by-passing of extreme flows beyond the capacity of the sewer system; this currently occurs using portable emergency pumps on an as needed basis.	A
2	What procedures do you use to determine whether the capacity of existing gravity sewer system, pump stations and force mains are adequate for new connections? Who does this evaluation?	Currently there are no system in place except for the treatment facility influent and effluent flow meters.	A
3	Do you charge hookup fees for new development and if so, how are they calculated?	The town charges a rehabilitation fee – it is based on the Flow Estimation Table from the MA DEP 314CRM 7.15 stating that each bedroom uses 110 gallons a day. The cost per equal dwelling unit (normally a bedroom) is \$500.00. The Flow Estimate Table is used to calculate a equal dwelling unit for places like a restaurant. Each seat in a restaurant uses X gallons per day – for each 110 gallons a day we charge \$500.00	
4	Do you have a hydraulic model of your collection system? Is it used to predict the effects of system remediation and new connections?	No.	A

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IV.F. Collection System Operation: Pump Stations - Inspection

IV F	Question	Response	*Act
1	How many pump stations are in the system? How often are pump stations inspected? How many are privately owned, and how are they inspected? Do you use an inspection checklist?	7 major pump stations and over two hundred grinder pumps, of which about 175 are owned by the town. See section I.2 for more details.	
2	Is there sufficient redundancy of equipment at all pump stations?	Currently no	A
3	How are pump stations monitored? If a SCADA system is used, what parameters are monitored?	Pump stations are monitored using SCADA. Flow, power status and communication are monitored. System is old and unreliable, needs to be upgraded to current technology.	A
4	How many pump station/force main failures have you had in each of the last three years? Who responds to pump station/force main failures and overflows? How are the responders notified?	Two – PS 4 and PS 3 See ERP for response plan	
5	How many pump stations are equipped with backup power sources? How many require portable generators? How many portable generators does your system own? Explain how the portable generators will be deployed during a system-wide electrical outage.	See section I.2. The portable generator for PS A is kept at the wastewater plant and deployed when needed.	
6	Are operation logs maintained for all pump stations? Are the lead, lag, and backup pumps rotated regularly?	Pump station checks are logged in DoForms daily. Pumps are typically running in alternating control mode.	
7	Is there a procedure to modify pump operations (manually, or automatically), during wet weather to increase in-line storage of wet weather flows? If so, describe.	NO possible plan to be evaluated as part of the CMOM Corrective Action Plan	A

V.A. Equipment and Collection System Maintenance: Sewer Cleaning

VA	Question	Response	*Act
1	What is your schedule for cleaning sewer lines on a system-wide basis? At this frequency, how long will it take to clean the system? How are sewer cleaning efforts documented?	Contract has a quota of 20 % per year, actual is less based on priority needs. To be reevaluated as part of the CMOM Corrective Action Plan. Plan is to utilize PACP guidelines and reporting.	A
2	How many linear miles of the collection system were cleaned in each of the past 3 calendar years?	2013 – Approx. 1 mile 2014 – approx. 9.9 Miles inspected, and cleaned as needed 2015 – less than 0.5 miles	A
3	How do you identify sewer line segments that have chronic problems and should be cleaned more frequently? Is a list of these areas maintained and cleaning frequencies established?	Kleinfelder December 16 2014 Kleinfelder June 17 2016 To be reevaluated as part of the CMOM Corrective Action Plan.	A
4	Approximately, how many collection system blockages have occurred during the last calendar year, and what were the causes?	27 Reported blockages since W&C took over in May of 2015 until Oct. 2016	A
5	Has the number of blockages	The number of blockages has stayed about the same.	

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	increased, decreased, or stayed the same over the past five years?		
6	What equipment is available to clean sewers? Is any type of cleaning contracted to other parties? If yes, under what circumstances?	SL Rat – inspection device Contractors are used f for sewer cleaning, both for regular basis and emergency service.	A
7	Do you have a root control program? Describe its critical components.	There is currently no root control program.	

V.B. Equipment and Collection System Maintenance: Maintenance Right-of-Way

V B	Question	Response	*Act
1	Is scheduled maintenance performed on Rights-of-Way and Easements? At what frequency? How many manholes in easement areas cannot be located?	Within the last calendar year, there has been no scheduled maintenance within Rights-of-Ways/Easements.	A
2	Are road paving projects coordinated with the collection system operators? Have manholes been paved over? How many manholes in paved areas cannot be located? Describe any systems in place for locating and raising manholes that have been paved over.	Yes, road paving projects are typically coordinated with the Contract Operator through the Department of Public Works. There have been no known manholes paved over nor are there any known manholes in paved areas which cannot be accessed.	

V.C. Equipment and Collection System Maintenance: Parts Inventory

V C	Question	Response	*Act
1	Do you have a central location for the storage of spare parts?	Spare parts are located in the Wastewater plant	
2	How have critical spare parts been identified?	Not at this time	A
3	How to you determine if adequate supplies on hand? Has an inventory tracking system been implemented?	Inventories of spare parts are kept on Excel logs, which can help with ordering supplies. A formal inventory tracking system has not been implemented.	A

^{*} Put an "A" in the final column if this is an issue you intend to address with future action.

VI A. SSES: System Assessment

VI A	Question	Response	*Act
1	Do POTW flow records or prior I/I or SSES programs indicate the presence of public/private inflow sources or sump pumps? Please Explain.	YES Plant historical flow data and prior system assessments indicated public and private I/I	
2	If problems are related to I/I, has a Sewer System Evaluation Survey (SSES) been conducted? When? What is the status of the recommendations?	Various studies have been done over the years 1974 study by Whitman & Howard 1983 Evaluation by Black 7 Veatch 1984 study by CDM 1999 Summary study by Tighe & Bond 2005 Straights Pond area study by W&C Proposed SSES will be part of the CMOM Corrective Action Plan.	A
3	Do you have a program to identify and eliminate sources of I/I into the system including private service laterals and illegal connections? If so, describe.	No. CMOM Corrective Action Plan will address the future I/I program to meet permit and MA DEP requirements.	A
4	Have private residences been inspected for sump pumps and roof leader connections?	Programs to identify and remove sump pumps was performed several times in the past.	
5	Are inspections to identify illicit connections conducted during the property transfer process?	Yes. Currently inspections to identify sump pumps is covered by the Town bylaw that when a property is transferring ownership, that an inspection is done.	
6	How many sump pumps and roof leaders have been identified? How many have been removed?	The sump pump inspection bylaw was passed in May 2007. Approximately 7 or 8 have been redirected. (Realtors know that the sump pumps need to be directed outside so they make sure that they are directed outside before we come to inspect them – similar to they change the smoke detectors before the fire department comes to inspect.)	
7	Have follow-up homeowner inspections been conducted?	Follow up inspections were done for the five or six we found.	
8	What incentive programs exist to encourage residences to disconnect roof leaders & sump pumps? (i.e. matching funds, etc.)	No current incentive program	
9	What disincentive programs exist to encourage residences to disconnect roof leaders & sump pumps? (i.e. fines, surcharges)	A fine of \$25.00 per day for each day in violation can be imposed – So far when we have found an illegal sump pump, they fix it the same day so they can sell the property.	

VI.B. SSES: Manhole Inspection

VI O			
VI Qι	Question	Response	*Act
В			
	Do you have a manhole inspection nd assessment program?	Manholes are currently inspected as needed based on preventative maintenance capacities. The PACP type 1 assessment using a standard inspection form is currently used. A manhole repair program is needed.	A

^{*} Put an "A" in the final column if this is an issue you intend to address with future action.

2	Has a formal manhole inspection checklist been developed?	Yes, a formal manhole inspection checklist has been developed in accordance with NASSCO standards.	
3	How many manholes were inspected during the past calendar year?	277 manholes were inspected between May 1, 2015 and September 30, 2016.	

VII. Energy Use

VII	Question	Response	*Act
1	What is your annual energy cost for operating your system? For which pieces of equipment do you track energy use?	The approximate annual energy cost for the wastewater treatment plant is \$233,000. Individual pieces of equipment are not tracked for energy usage, but the wastewater plant and the collection system pump stations have individual meters.	
2	Have you upgraded any of your pumps and motors to more energy efficient models? If so, please describe.	The aeration blower system was upgraded in 2002, replacing the mechanical aerators for ½ of the wastewater plant. Several of the pump stations have been retrofitted with VFDs and when motors are replaced, more energy efficient motors meeting current energy efficiency standards are installed.	
3	Have you performed an energy audit in the past three years?	No. An energy audit has not been performed within the last three years.	
4	Where do you use the most energy (fuel, electricity) in operating your collection system?	For the collection system, the highest energy use is the pump stations pump motors and the individual grinders in each household located on the low pressure sewer. We also recently installed wet well aeration units to reduce FOG and ragging issues.	
5	If you have a treatment plant, would you be interested in participating in EnergyStar benchmarking of your treatment plant?	Yes. The Plant would like to be included for participating in an Energy Star benchmarking.	A

VIII. Other Actions

VIII	Question	Response	*Act
1	Describe any other actions that you plan to take to improve your CMOM Program that are not discussed above.	The Town of Hull and its utility stakeholders have recently completed a draft EPA Climate Resiliency Evaluation and Awareness Tool (CREAT) Report which assessed climate change threats to utility assets and will be a helpful tool moving forward for capital planning. The report is under comment and review phase, but pursuit of hazard mitigation grants (including overall collection system improvements for resiliency) will aid in the execution of the CMOM program and its objectives.	A

^{*} Put an "A" in the final column if this is an issue you intend to address with future action.



APPENDIX B: COLLECTION SYSTEM WORK ORDERS

1. 2016 WORK ORDER SUMMARY 2. 2016 SAMPLE WORK ORDERS 2015 DOFORMS/SEMS CMOM Work Orders

Workerder Asset Name	Workerder Number	WO History Status Date	Workorder Description	WO History Notes	WO Histo Status
0 - WW - collections - general	1496	1/27/2016	45 hull share drive hotel	Responded to hatel for back ups opened mashale £20813 and 20813 for flow # 20811 was fine # 20813 coming from hetel was full of debris and grease resticting the flow to the main had to call Ras Sano Dayin forn Cohapset, to clean mashale	Complete
	1516	2/17/2016	25 Main Street	J Daw determined homeowner issue	Complete
	1618	2/16/2016	Manhole Inspection Gunrook Ave	Need to confirm mh location	Complete
	1623	2/17/2016	Inspection of the sewer main for a complaint of sewer backup.	Assistant, kevin Stetson,	Complete
	1704	2/15/2016	Blockage at 25 Main Street, Kelth Connelly	Assisted by JB &ES. Inspect lateral at 25 main street. Clenout in driverway - found cap off and evidence of leak, Attempt to snake line, flush with jetter from Witiver, and try camers. Line still had mater in B. Tawn to call high Certific.	Complete
	1705	2/15/2016	Pre marked sewer line so digging crew can dig up water line	Pro marked street for sewer lines with Jim Dow	Complete
	1706	2/19/2016	Opened manhele to confirm sewer line running down on	Opened manhole to confirm sewer line running down Townway	Complete
CAMERA	1707	2/22/2016	Townway Carnera Lateral line to the main for J Dow	Camera Lateral to main line all clear	Complete
Chambich	1733	2/29/2016		Check for flow from top of hill on porrazzo rd. To the bottom,	
	1853	2/29/2016	34 Porrezzo Road	checking 5 manholes flow is normal in all 5 manhole checks, Check for flow from top of hill on porrazzo rd. To the bottom, checking 5 manholes flow is normal in all 5 manhole checks, MH	Complete
114 4	1011			20815, 20812, 20800, 20801, 20795	
VACTOR	1911	6/3/2016	Address pit at the dump before Windriver comes back		Complete
PERED	1912	3/4/2016	34parrozzo rd.	graffa cleaned pil. Responded to 34 parezzo rd, with camera to chec km piping from the house to the repair, and the pipa to the street. All was found to be clear. Not construction did all work to repair the connection	Complete
VACTOR	1973	7/22/2016	Inspection of landfill debris pit	that failed!	Complete
VACIOR	2107	4/13/2016 5/2/2016	Pit at the dump 12 Harborview Read, Alice, 781 925 9222, Tellet flush backed up into tob.	Removal of debrin at pit Water main break same day, Expected pressure in pipes, Ffushed toilet again after relieving pressure from pipes by having faucet	Complete
	2228	5/3/2016	Sue Mema 9 Warren Ave # 761 773 1323	nan, Flowing normally now. Opened manhole in street system flowing freely	Complete
				12:30 to 330pm opened MH 20596 and MH 20614 for flow street	
	2282	5/14/2016	Salt water diner 514 Nantasket Ave	flowing freely	Complete
	2337	5/31/2016	32 Merrill Road Jeanne Parkes of 8 Andrew Road, 761 925 5156, Backup	Checked MH 20799 and MH 20815, Flowing freely.	Complete
	2469	8/20/2016	Call	Checked MH20782 and MH20788	Complete
	2470	8/20/2016	Jeanne Parkes of 8 Andrew Road, 781 925 5156, Backup	Checked MH20782 and MH20788	Complete
	2481	6/21/2016	Call 183 a nantasket ave backup	Popped 3 manholes	Complete
ODOR	2488	6/29/2016	Odor Complaint at 132 Bay Street. Patricia Donovan. House number is 781 773 1141. Cell phone number 503 243 8523,	Checked Manholes 20001 and 20795. Flowing freely, Used Jerome H28 meter in building. No gases detected using Jerome. Informed Patricia Denevan to contact plumbing service to further identify ofors inside her residence. Assisted by Eric Sutten	Completes
	2491	6/28/2016	168 samoset ave nicole naumenko 781 925 9001	Opened manhole 20548, 28539 street flowing freely, Constant Flow plumbers on site pulled a root ball from clean out in her house system now operational	Complete
VACTOR	2654	7/7/2016	Debris removal scum pit at the hull dump	Removal of debris from vactor truck at dump sours pit, there was	Complete
1.10.14	2690	7/15/2016	Nultiple alarms	two times for this removal total time 1,5 Resot all assets in alarm	Complete
	2839	8/5/2016	83 manomet, ave. Blockage back up,in house	Inspection of manholes, at 63 manomet Avenue WH20635. IIIH 20648 and IIIH20698 feund that the flow of the line in street is normal, notify the residence that the problem is in the heuse, no problem with the flow in sever time.	Complete
COOR	2852	8/15/2016	Oder complaint 395 Nantasket		Complete
ODOR			But a land of the death of the land of the	No H28 detectable at time of respons	Complete
	2890	8/25/2016	Delivering Handouts for force main repair on Nantasket Ave next to Helel.	Delivered notice to surrounding houses of Pump Stations 3 and 4	Complete
	2834	872872016	4inch portable water pump 5 hp.	Exhaust system is not attached to engine due to snapped bolts that need to be removed from the head of engine drill and re,tap threads and reassemble change the oil, disassembled earburetor to clean jets and float bowl. Add fael and pump runs awaxeme!! Add to the inventery list a poed working pump!	Complete
DIGSAFE	2897	8/23/2016	3 Vautrinot markout	Mark out sewer	Completes
	2098	8/29/2016	110 Draper Ave Digsafe mark out	Mark out sower	Complete
	2099	8/29/2016	193 Samoset Ave mark out	Marked out sewer for Digsafe	Complete
	3006 3007	9/1/2016	169 Catfish Digsafe 822 nantasket ave digsafe	Mark out sewer Mark out of sewer	Complete
,	3007	9/1/2016	Diguate mark out 43 Whitehead ave	Digrafe mark out	Complete
4	3003	9/1/2016	Digitale mark out 75 H street	Mark out sewer complete	Complete
	3065	\$130/2016	5 Eastern ave back-up call plumber on site need to check st	Ex.fic arrived at location opened 2 markeles, (1) 28825, 28822 both markeles flowing freely. Spoke to homeowner told her street was fine she said plumber was coming back in monday	Complete
JETTING	3257	10/26/2016	Jetted 699 feet between meridian ave and Beacon ave on Holbrook ave and vaccumed two manholes 20189 and 20210	See description jet and vaccumed Holbrook ave with wind river	Complete
	3268	10/28/2016	25 Summit Ave.	Inspect manholes 20932, 20935 and sure manhole/cleanout in bushes in between #33 and #37. No issues and flowing ok. house no 25, 29,33,37,37A all flow into a lie behind these houses. Clear and flowing. No other cleanout outside. Report back to homosewase.	Complete
		10/31/2016	Sower service broken by hull light at 152 Spring Street	BB and ES inspected broken service and notified Town of needed	Complete
	3276	10/21/2010	Some service at orani by the right at 122 opining breat	repairs	
	3276	11/3/2016	#6 Holbrook Ave	repairs ES & 88 inspected sewers, Home owner called roto rooter to snake sewer service on property	Complete

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	3372	12/1/2016	6 Helbrook ave	roto reoter came cleared line camered line found issues on her property homeowner took care of problem	Completed
GAFRETY	3426	11/29/2016	ps i ladder	Now secure	Completed
	3557	12/9/2016	37 Tierney Ave. Eater Stevens 99 years old 761 925 9921 has a issue with her follet and abut the valve, next day she outfin't open valve joe and I opened valve checked the 2 tellets everything seems o	See description above	Completed
	3573	12/14/2016	Manhole Inspection	Inspected Newport road area - bill assisted by Joe	Completed
	3575	12/15/2016	9 Willow st 781 925 1889 back-up call	930 am to 10:30 am eric bill arrived at lecation opened manholes 20850 on Spring at and 1 on Main at NH 20045 both line flowing freely	Completed
	3617	12/30/2016	26 Western Ave 450	Visit location at 1230pm, sewage coming up through floor drain in garage. Inspect street markeles & found #29388 surcharged. Rosano Davis only pumpericentracter available. Still blockage in street. Clean garage area & set up for vector track on Sat.	Completed
PLANT	3621	12/31/2016	Chlorine distribution valve for effluent	Disassemble valve and dislodge debris	Completed
	3922	12/31/2016	Weatonn Are	Arrive at 7am, there until 10 am with WRIVER vaciet truck. Mike Decesta and Jasen from WR. Hark road where suspected blockage area is. Inform homeowner, Town, & Hub construction.	Completed
22 - WW - sewers/pipes/force mains	5429	1/5/2016	Ray Samo (plumber) called to check manholein street for flow at 173 Atlantic Ave	Opened 2 manholes for blockage system flowing freely	Completed
	5431	1/5/2016	Ray Samo (plumber) called to check manholein street for flow at 173 Atlantic Ave	Opened 2 manholes for blookage system flowing freely	Completed
	1434	1/5/2016	Mashale Inspection	Opesed manhole for flow system flowing freely	Completed
	1586	2/7/2016	Sewage leaking into residents house. Called in to check manholes around 48 Highland Ave.	Checked manholes MH 20060 and MH 20068 flowing properly.	Completed
	5587	2/18/2016	Open 2 manheles on Fitzpatrick way on northeast side of bridge at this time no assigned numbers	Using a 24 millimeter socket manhole bolled down which bolls do unscrew fairly easy flow was flawing freely	Completed
	1688	2/18/2016	Check 2 manholes on Fitzpatrick way on northeast side of the bridge	Inspection of manhole flowing freely	Completed
JETTING \$ CCTY	1618	3/7/2016	Overall inspection and cleaning of manholes on Atlastic Ave, Genrock Ave markete its are 20162, 20165, 20167, 20163, 20069, 20166, 20166, 20161 this when done will complete this area	GUNROCK WORK	Completed
	1700	2/19/2016	Inspection of manhole after cleaning charged manhole 20827	Opened manhate cleaned debris from manhate	Completed
4	1871	3/7/2016	Informative W/O for Gusrosk Ave and Atlantic Ave, Jetting cleaning, and corners work		Completed
	1968	3/30/2016	Back-up call at 39 Bay st Jae McDughlin 39 Bay st cell # 617 653 2420 talked to herecowner advised to call plumber	Opened mashale inspected flow street flowing freely	Completed
Jerting	2081	4/6/2016	Back-up call at 37 Summit Ave Ted Sapienze cell # 617 750 0814	Jetted line from clean out located under hedge between 33E37 Summit jetted towards the sweeps, when saw jet nezzle pulled back added dye saw dye at sweeps and at manhole 20977. Then advised horseowner to call a plumber, then call to let us how he made out.	Completed
IN-PIPE	2095	4/6/2016	Installation of bacteria unit # 2 in frost of Jacobs school this is a un-mapped manhole	Installation of bacteria unit #2	Completed
	2099	4/9/2016	Water main break at numbasket ave and H st	Went to location used GPS map showed foreman sever main line on narizashet ave and each side of H st called Jim Dow to got a tie card for 1 house of concern he said it would be fine	Completed
IN-APE	2100	4/9/2016	Inoculation of bacteria in 11 manholes dispersed around town with 5 gallons in each manhole		Completed
IN-PIPE	2118	4/21/2016	Inoculation of bacteria in 11 manholes dispersed around town with 5 gallons in each manhole	Opened manhole inocelated with 5 gallons of bacteria in each manhole. Also cleaned all rises and secondary covers of dirt for future openings so no dirt falls into manhole put dirt in a 5 gallon bucket and disposed at plant dunster.	Completed
	2223	5/3/2016	Back-up call on 9 warren st. Checked 4 manholes in area	MH 20562 at 9 Warren flowing freely. Also checked upstream NH 20591,20604,20617 advised homeowner to recall her plumber and investigate further on issue.	Completed
	2235	5/3/2016	Picture of manhole inspection	Opened 6 manholes found issues	Completed
IN- PIPE	2247	5/5/2016	Inoculation of bacteria in 11 manholes dispersed around fown with 5 gallons in each manhole	Opened manhole inoculated with 5 gallons of bacteria in each manhole.	Completed
IN-PIPE	2251	5/6/2016	Replaced the 30 day bacteria bottles in 8 of the of the 11 manholes, See notes	5/6/16 completed replacing bacteria battles in manhales 20978, 20003	Completed
	2268	5/10/2016	Manhole Inspection	Opened mankale took picture sent to jim with other information	Completed
	2283	5/14/2016	Back-up call at 514 Nantasket Ave, hardware, saltwater diner, jade restaurant all experiencing blockages. Advised building owner to call a plumber for problem	Investigated situation took pictures gathered a history of area from myself, Paul Gratta, Jim Dow, Arum, conclusion was situation is the buildings issue	Completed
IN-PIPE	2308	5/22/2016	Summary of inoculation of eight bacteria units, Units 12 thru 20	Summary report	Completed
	2334	5/29/2016	Backup Call 20 Wyola Road, Pamela Knight 781 925 1383	Checked Manhole 28863. Flowing freely, No grinder pump on property or that side of street for any house, Advised homeowner to call plumber.	Completed
	2339	5/29/2016	20 Wyola Road. Pamela Kright 781 925 1383	Checked Manhole 20063, Flowing freely, No grinder purep on property or that side of street for any house. Advised homeowner to call plumber.	Completed
ODOR	2349	5/31/2016	Oder Complaint, 50 Summit Avenue, Joann Thompson 781 925 4631	Jerome readings around property and Nastasket Avenue. No readings above .003. At this time no odors found. Resident believed the odor was coming from Straits Pend	Completed
	2471	6/20/2016	Service Call, Backup at 8 Andrew Road, Jeanne Parkes 781 925 5156	Checked Manhole 20782 and MM 20788	Completed
	2499	6/28/2016	Back up call 168 sameset ave	Opened manholes 20548, 20539 street flowing freely see manhole imagestion DO form	Completed
F.M. REPAIR A	2493	6/29/2016	MH 20311, Windriver in to dismantle corrected force main pipe, and camera line	Opened manhole, confined space entry performed, fire department notified. Windriver cut pipe in 3 sections and hoisted out and removed from sits	Completed
	2499	6/29/2016	Removal of debris from MH 20811 at the dump pit	Removed from the	Completed
orcemain vepalr v	2502	6/30/2016	MH 20811 force main discharge pipe debris from station 3		Completed

			Made Construction due tourch account existing also had account	
2675	7/13/2016	Heb Construction installing new piping for a grinder pump at the of North truro rd	truck on site to drain the line, pipe wan cut, connection was installed, a street shut off pipe also installed, then back filled. Less than five gallens was spilled in the hele	Completed
2676	7/13/2016	North truro rd shut down of 14 town owned grinders and 1 FR mahoney grinder at # 202 truro	Arrived at location coordinated with Hub Construction turned off 15 grinders when installation of pipe and trench partially back filled VIIC employees turned grinders back on	Completed
2689	7/14/2016	Hub Construction installing new piping for a grinder pump at the of North truro rd	Nub Construction, dug tranch, exponed existing pipe had pump truck on site to drain the line, pipe was cut, connection was installed, a street shut off pipe also installed, then back filled. Less than five colleges was spelled in the hele	Completed
2559	7/20/2016	54 Wyola rd Farrell excavation in to hook up new service	Termed 15 grinders on street, contractors est pvc pipe, Rossano Davis on site with vactor track less than 3 gallions of sewage was spilled centrasters hoeked service up and pet a shut off stem pipe at location ,then back filled trench. WC turned grinders back in the "ON POSITION!"	Completed
2722	7/27/2016	house, Hub needed to know where house 218s line connects to street line. Also Hub will complete a new tie	Arrived at location reviewed drawings and get some new	Completed
2840	8/8/2016	Manhele Inspection	Inspection only, flow is normal at manhole 20635, 20648, and 20660	Completed
2851	8252016	Dig safe pre marking for DPW 3 catch basins being	Located sewer lines and laterals on 4 houses from map drawings	Completed
				Completed
3812	9/6/2016	159 Nantasket Avo and Berkley schooners restourant back up call this cross country is soley for schooners restaurant	Arrived on site opened 2 manholes, 1 cross country in parking lot on park ave which is unmapped and 1 in street in front of 12 park ave which also unmapped after 2 hrs planther cleared line	Completed
3813	\$15/2016	159 Nantasket Ave schooners restaurant inspected mankote do to full grease trap which caused line to clog	Arrived at location worked with plumber eventually line was cleared	Completed
3014	\$15/2016	159 Mantasket Ave acheoners restaurant back up call	Arrived at location worked with plumber line was cleared	Completed
3017	9/12/2016	Windriver in to jet 2 manholes do to a previous back-up call at 159 Nantasket //we schooners reataurant	Arrived at location jetted 2 manholes that are unmapped cleared lines which were not bad. Plumber on site he removed cap to clean out to verify line from jetter had reach clean out line flowing freely	Completed
3198	10/4/2016	5 Eastern ave camera line for Hub Construction repairing broken pipe from clean out to sewer main	As Comersing line noticed 4lt in the pipe had broke off and dipped down about 2" from existing pipe Hub Construction had to extend trench to repair	Completed
3211	10/6/2016	23 Main st, contractors on site Es,05 imspect capped line, before contractors bury line	Arrived on location, took picture of capped line, apoke to eenhaster who supplied us with a tie card before burying which Bill B was gaing to clean up before giving to Carroll for being filed	Completed
3260	10/26/2016	Water Main break at 46 H street, Need sower dept, to	Using tie card to identify and mark sewer lines white aquarion	Completed
3383	11/9/2016	Carsera line at 10 western ave	Cameraed fine, 4ft into street line was separated notified jim dow of issue homeowner will continue digging into the street on Thursday	Completed
3561	12/12/2016	Elizabeth Cossette, 830 Nantasket Ave. 781 925 1807. Toilet Issue, Believes it is soot buildup.	Examined toilot, Little debris present, Belleved to be mold growing in tank of toilet, Not wastewater related. Building up over the seurse of a few years. Advised to contact Aquarion if resident	Completed
3588	12/19/2016	Bart Kelly assistant building inspector notified Hell WWTP of a overflowing manhole cover on Atlantic Are in front of of the playground near 205 Atlantic Ave	Arrived at location ovaluated situation celled Rosano Davis for a purep truck and jetter. Jetted 5 manholes about 700 ft street flowing freely, SSO occurred about 250 gallons Resano cleaned	Completed
3589	12/19/2016	Overflowing manhole on Atlantic ave. This asset is the unmapped manhole	Jetted manhole 20056 to unmapped manhole, unmapped manhole was overflowing causing the SSO due to grease chunks in line thru out this area	Completed
3881	12/21/2016	WIO 2of2 see manhole inspection form for 7 Eastern ave Back-up call Edward Alkinson 617 558 2867	however homeowner showed me where line is from property to	Completed
1438	1/6/2016	Community for all pump stations	Preliminary contact by Kevin Stetson to verizon when loop went down. Eventually, after a few additional calls, it was found that Verizen's chip of the loop in wrong way caused the outage,	Completed
2697	7/18/2016	All station comfail alarm and lost phone service		Completed
2853	8/1/2016	Pump station a door won't open		Completed
3028	9/15/2016	Pump station 5 sump pump in dry well is not pumping but is running, suspect that the pipe leading to the wet well is plugged.	Jett the piping to the wet well and operating normal again. We also cleaned up the debris from the lower dry well floor.	Completed
3274	10/31/2016	Emergency generator, battery post protection,	checks, todayl I Station 1 ,station 3 ,station 4 ,station 5 station 6 and station 8,	Completed
3454	11/22/2016	Wetwell inspection of debris at all stations	in wetwells	Completed
1728	2/27/2016	Leose side conduit elbow - broken off	Visit on 21 26 at 430 pm, assess and attempt to fix. Dig and reset conduit. Need additional Hems. Return on 2/27, repair crecked elbow with fiberglass resin, set elbow and re-anchor with new screws. Silicene around piece after mounting. Call and update homeowners.	Completed
2688	7/14/2016	Customer couldn't here grinder coming on	12pm/1270pm arrived at location found grinder working properly. Homeowner concerned about a party he will be hosting and wanted to be sure there would be no problems.	Completed
2332	5/29/2016	Pump went into alarm	LOTO performed. Replaced old grinder pump (Serial #103845) with	Completed
2667	6/11/2016	14 Hentana Ave, Grinder pump Alarm circuit box cover	Replaced circuit box by Aram Varjabedian	Completed
2293	5/17/2016	Grinder Pump went into Alarm	LOTO performed, Removed nonfunctional grinder pump (Serial #195831) and replaced with Repaired Grinder Pump (Serial #91315)	Completed
3603	12/22/2016	Grinder in alarm Tina Delguidice 603 707 6616	Eric Joe arrived at location Lote performed opened grinder checked for operation alarm went off replaced grinder	Completed
3603	12/22/2016	Grinder in alarm Tina Defguidice 603 707 6516	Eric Joe arrived at location Lote performed opened grinder	Complete
	2676 2689 2599 2722 2840 2891 2896 3812 3813 3914 3917 3188 3211 3260 3383 3561 3588 3589 3901 1438 2697 2353 3028 3274 3454 1728 2688 2332 2667 2293	2676 7/13/2016 2689 7/14/2016 2699 7/20/2016 2722 7/27/2016 2840 8/8/2016 2891 8/25/2016 2896 8/20/2016 3896 8/20/2016 3891 9/12/2016 3893 10/4/2016 3291 10/6/2016 3394 9/12/2016 3290 18/28/2016 3393 11/8/2016 3393 11/8/2016 3581 12/13/2016 3588 12/13/2016 3588 12/13/2016 3589 12/13/2016 3589 12/13/2016 3589 12/13/2016 3589 12/13/2016 3589 12/13/2016 3599 12/13/2016 3599 12/13/2016 3599 12/13/2016 3599 12/13/2016 3599 12/13/2016 3599 12/13/2016 3591 13/25/2016 3593 3/1/2016 3594 13/25/2016 3597 7/16/2016 3597 7/16/2016 3598 17/2016 3598 17/2016 3599 17/2016 3599 17/2016 3599 17/2016 3599 17/2016 3599 17/2016 3599 17/2016 3599 17/2016 3599 17/2016 3599 17/2016 3599 17/2016 3599 17/2016 3599 17/2016 3599 17/2016	2576 7/13/2016 North truro of shad does of 14 form comed grinders and 1 FR mahousey grinder at 8 202 furure 2589 7/14/2016 Heb Construction installing new piping for a grisdor pump at the of North truro of 9 forms of 1 202 furure 2590 7/20/2016 S4 Wyola of Farrell excursion in to book up new service 2591 7/20/2016 S4 Wyola of Farrell excursion in to book up new service 2792 7/27/2016 S4 Wyola of Farrell excursion in to book up new service 2792 7/27/2016 S4 Wyola of Farrell excursion in to book up new service 2792 7/27/2016 S4 Wyola of Farrell excursion in to book up new service 2792 7/27/2016 S4 Wyola of Farrell excursion in to book up new service 2792 7/27/2016 S4 Wyola of Farrell excursion in to book up new service 2894 8/4/2018 Mahous digging water fire for hack up of or new boxes, Heb needed to bream where heuse 21th fire connects to street lite. Also Heb wild complete a new tile connects to street lite. Also Heb wild complete a new tile connects to street lite. Also Heb wild complete a new tile connects to street lite. Also Heb wild complete a new tile connects to street lite. Also Heb wild complete a new tile connects to street lite. Also Heb wild complete a new tile connects to street lite. Also Heb wild complete a new tile connects to street lite. Also Heb wild complete a new tile service wild the service of the street of Service and Service Service and Service Service and Service S	purge at the of North Insure of Mandales and 14 foron convex girtness. Affect 17 (17) (17) (17) (17) (17) (17) (17) (

	2079	4/3/2016	Manhole Inspection	Checked Manhola, Flowing Freely	Completed
	2078	4/4/2016	Backup call at 10 Western Ave. Bill Doyle 617 281 8042	Checked Hanhole 20051, Flowing Freely	Completed
MH 20051	2076 2077	4/3/2016 4/3/2016	Hanhole Inspection Backup call at 10 Western Ave. Bill Doyle	Checked Manhole, Flanking Freely Checked Manhole 20051	Completed
MH 20050	3576	12/15/2016	Manhole Inspection	930am to 19:00 am erio, bill checked manholes 1 on Spring at MM 20059, and 1 on Main at MH 20045 both manholes flowing freely advised homoconer to call plantter	Completed
7	3624	12/31/2016	Inspect and remy brick pieces. Attempt to jet down.	Vac out brick pieces with WRiver and attempt to jet down the street, but unable to, since liquid in drain in #26 garage started to rise.	Completed
MH 20038	3619	12/38/2016	Hanhole Inspection	Appeax 230pm, found this manhole surcharged. Blade a number of calls. Only Rosano-Davis available, Pump out manhole and found brick pieces.	Completed
MH 20033	3618	12/38/2016	Manhole Inspection	1pm check - Hambele is OK, Net part of affected area.	Completed
MH 20019	2005	4/7/2016	Manhole Inspection	Installation of bacteria unit in manhole	Completed
MH 20001	2449 2085	6/8/2016 4/7/2016	Manhele Inspection	Opened manhole from paddocks island 47/16 installed bacteria unit in manhole	Completed
MH 20000	1455	1/8/2016	Manhole Inspection	Opened manhole cover lowered satisfy probo waited for measurement satisfy was 8.1	Completed
Manholes	1893	3/3/2016	Service Call for 239 Atlantic Avenue, Sewage Backup in house, Caller Pam Bennett 781 925 0398	Examined MH 20035, MH 20045, MH 20047. Flowing Freely at all examined manheles. Service confirmation paper put in residence mailbox.	Completed
Grinder Pumps	2466	6/19/2016	Purep west into alarm	LOTO performed. Replaced Grinder pump with Repaired pump	Completed
Grinder Pump 9 MANTASKET AVE	2462	6/17/2016	Grinder in alarm	2:30 pm 6/16/16 leto performed replaced grinder serial # out 106759 serial # in 106831	Completed
Grinder Pump 59 GOSNOLD ST.	2338	5/31/2016	Grinder Pump making unusual sounds. Upon arrival tested pump to find it was struggling to keep up with load.	LOYO performed. Replaced Grinder Pump Serial #106781. Replacement Grinder Pump Serial #004352122	Completed
Grinder Pump 54 North Trure	1471	1/12/2016	Grinder Pump in alarm 54 North Truro	tank was full puddled pump out then replaced grinder. Also this house has a FRMAHONEY box which we own and replaced lock with one of ours	Completed
Grinder Pump 52 NANTASKET AVE	2427	6/1/2016	Resident claimed the pump is louder than usual when	LOTO performed. Replaced Grinder pump (Serial #91316). Replaced with new Grinder pump (Serial #DHS49969) Grinder in alarm opened cover which was broken and did replace	Completed
Grinder Pump 50 NANTASKET AVE	2700	7/20/2016	Grinder in alarm	Arrival Bare depart 1030am grinder full pumped out then reinstalled new pump	Completed
4				Replaced metherboard, replaced plug, changed alarm light. Pump functioning normally	Completed
GRINDER	3224	10/13/2016	DPW Orinder Pump Pit connecting red damages,	Regained Grinder Pump (Serial #196782) LOTO performed, Replaced connecting rod with new.	Completed
Grinder Pump 5 NANTASKET	3223	10/13/2016	feeting installation for a new deck, DPW Grinder Pump in Alarm	the side of grinder. LOTO Performed, Grinder Pump Pit pumped put using puddle pump, Replaced Nonfunctional Grinder Pump (Social #166631) with	Completed
GR (NDER)	3377	12/27/2016	Grinder Pump in elerm Inspect the possibility of a damaged pipe that exits the pump due to a contractor digging near pump for a	with new pump Determined gravity piping to grinder pump does not come in from	Completed
		11/7/2016		malfunctioning Grinder Pump with Regained Grinder Pump. 939 am - 1930 am Loto performed removed grinder pump replaced	Completed
GARDENS RD. Grinder Pump 37 ELM AVE	3352	16(23/2016	Grinder Purep went into alarm.	reconnect directly to the pump, pump out # was 91315 pump in # was 195022 LOTO Performed, Drained grinder pump pit into tote, Replaced	Completed
Grinder Pump 34 WYOLA ROAD Grinder Pump 36 SHORE	1627	2/17/2016	Grinder allarm	Responded to the grinder pump call late pump and controls, and Replaced the pump also had to remove extension, cable. And	Completed
Grinder Pump 33 WYOLA ROAD	1943	3/21/2016	Grinder Pump went into Alarm Grinder Pump went into Alarm	Grinder Pump Replaced grinder pump	Completed
RD.	3222	10/13/2016	Experienceing backup Grinder Pump went into Alann	weeking LOTO performed. Replaced old grinder pump with Repaired	Completed
Grinder Pump 200 NO, TRURO Grinder Pump 30 DELLAWANDA	1605	2/16/2016	Pursp went into alarm	LOYO perfermed, Grinder pump replaced Pumped out grinder pit and replaced grinder, tested electrical not	Completed
Orinder Pump 20 ROCKVIEW RD.	3658	9/27/2016	Replaced grinder pump #2 do to leur no pump flour	Checked 2nd pump by the bypass button pump wasnt working so we replaced pump	Completed
	1550	2/10/2016	Purep west into alarm	Replaced grinder pump	Completed
Grinder Pump 19 RICHAROS	1589	2/26/2016	Pump went into alarm	had to vacuum out before replaced grinder	Completed
Grinder Pump 19 HARWICH ST.	1468	1/12/2016	Grinder Pump in alarm,	pump 2 Loto was performed Opened cover tank was full had to puddle pump out tank at the top of grinder the was 2"to 3" of 3.4" stone on top of grinder which we	Completed
GRINDER	3025	9/14/2016 9/27/2016	now need to go back and replace the other will do another W/O fer 2nd pump Grinder in starm	2 pumps were found in this Can 1 was replaced last week today we investigated 2nd pump found it was not operational so we replaced	Completed
GARDENS RD. Grinder Pump 18 ROCKVIEW			There are 2 grinders in this tank one pump changed for	number 104826 with Repaired Grinder Pump Serial number 193831. Changed out 1 pump	Completed
Grinder Pump 17 SHORE	3611	12/27/2016	Grinder Pump went into alarm.	grinder pump new operational LOTO Performed, Pumped out grinder pump pit with puddle pump & 103ft parden hose Into tote, Replaced Grinder Pump Serial	Completed
Grinder Pump 16 QUANSET ST.	3415	11/25/2016	Grinder in alarm	Arrived at 1130 am departure at 1200pm Loto performed replaced	Completed
	2126	4/27/2016	Grinder in alarm	Leto performed, grinder pump not working awapped out for new gump, old pump serial \$106942 new pump serial \$196843	Completed
	2123	4/27/2016	Grinder in alarm	pump, old pump serial #106942 new pump serial #106843	Completed
Grinder Pump 15 EASTMAN RD				alarse went on replaced grinder pump Leto performed, grinder pump not working awapped out for new	

ROSANO DAVIS

MH 20113	2088	4/7/2016	Hanhole Inspection	Installation of bacteria unit # 4 in manhote 20113 flow goes to station 9	Comple
MH 20114	2083	4/8/2016	Hanhole Inspection	Installation and printing of bacteria machine	Comple
*	2987	4/7/2016	Hanhole Inspection	Installation of bacteria unit # 3 in manhole	Comple
MH 20125	1913	3/4/2016	Manhole Inspection	To verify marking of sower line leading to spinnaker isl. To manhole number 20125 for utility co.	Comple
-	2279	5/13/2016	Hanhole Inspection	Opened manhols took pictures with GO PRO downloaded in file	Comple
MH 20126	2278	5/13/2016	Hanhole Inspection	Opened manhols took pictures with GO PRO downloaded in file	Comple
			Manhole Inspection	Opened manhole took pictures with GO PRO downloaded in file	Comple
MH 20143	2277	5/13/2016		Opened manholo took pictures with GO PRO downloaded in file	
MH 20147	2276	5/12/2016	Manhele Inspection	JBasier assist. Inspect manhole and possible laterals in area.	Comple
MH 20164	2132	4/20/2016	Inspect due to water main break	Depth of main on Nantasket Ave at Standish was 0.5 ft. Whereas, water company digging at 4 ft level.	Comple
MH 20166	3558	12/9/2016	Manhele Inspection	Eric, joe inspected manhole 20166 due to back up call this street has a common low flow but is flowing freely	Comple
MH 20169	1954	3/29/2016	Manhole Inspection	Razano Davis fixed	Comple
*	1965	3/29/2016	Manhole Inspection	Opened manhole Rosano Davis cleaned manhole	Comple
MH 20178	2090	4/7/2016	Manhole Inspection	Installation of basteria unit # 6 on Meridian Ava manholo 20178	Comple
MH 20188	3922	9/12/2016	Manhole Inspection	Arrived at 2:00 pm opened manhole inspected flow street flowing freely	Comple
4	3240	10/18/2016	Decumentation	Es 88 arrived at location opened manhole installed wrappo ring, manhole not neisy now	Comple
MH 20210	3215	10/6/2016	Manhole Inspection	815am Es, Je inspected manhole for information purposes for contractors line needs to be cleaned and jetted do to debris	Compl
MH 20227	2091	4/7/2016	Manhola Inspection	Installation of bacteria unit # 7 on O ST and Contral Ave membels 20227	Compl
				12:15pm ES,BB, arrived at location opened manhole direction of	Compl
M04 20289	3199	10/4/2016	Manhele Inspection	pipe. Talked to builder who's brother did the plumbing he said he would talk to his brother and have him supply a tie cord	Compl
MH 20329	2092	4/7/2016	Manhele Inspection	Installation of bacteria unit if 8	Compl
MH 20343	2089	4/7/2016	Manhola Inspection	Installation of bacteria unit #5 manhole 20343 on Out and Beach	Compl
V/				Ave	_
	2250	6/3/2016	Bacteria unit # 5 net priming	Late Ballet and American Control	Comple
MH 20488	2034	4/7/2016	Manhele Inspection	Installation of bacteria unit # 50	Comple
	2102	4/11/2016	Locse Cover - Making sounds when driven over	Used Wrap-e-ring to secure manhole cover.	Comple
MH 20489	3021	9/12/2016	Manhele Inspection	Arrived at 2:00 pm opened manhole inspected flow street flowing freely	Compl
4	3023	9/12/2016	Manhele Inspection	Arrived at 135pm opened manhole put wrappo ring around perimeter closed lid	Compl
MH 20539	2493	6/28/2016	Manhola Inspection	Opened manhale street flowing freely, Constant Flow plumber's on site they pulled a root ball from clean out in her house system now operational	Compl
MH 20548	2492	672872016	Manhele Inspection	Back up call 168 Sameset are opened monhole inspected flow street flowing freely	Comple
MH 20562	2230	5/3/2016	Manhola Inspection	Opened manhole inspected flow street flowing freely	Compl
1	2234	5/3/2016	Summary of manholo inspection	IHH 20562 flowing freely, IIH 20591, found debris causing a full pipe. Heading upstream to NH 20604 observed a full channel slow flow, following to IIH 20617 observed allow flow seme debris	Comple
MH 20590	3492	11/10/2016	Manhole call	Arrived at location to a noisy manhele cover which was not the case it needs a tar patch cover is fine	Compl
MH 20591	2231	5/0/2016	Manholo Inspection	Opened manhole this is upstream from MH 20562 observed debris needs a pump truck or line jetting	Comple
MH 20994	2232	5/3/2016	Manhole Inspection	Opened mashale inspected flow slow flow do to downstream mashale 20591	Compl
MH 20617	2233	5/3/2016	Manhola Inspection	Opened manhote observed slow flow some debris at bottom of manhote	Compl
1111 2022	44.74	001813846	Hankala lagragation	Inspected, Several Missing bricks	Compl
MH 20759	1679	2/18/2016	Manhale Inspection		
MH 20762	1690	2/18/2016	Manhale Inspection	MH not found	Compl
MH 20764	1661	2/18/2016	Manhele Inspection	None	Compl
MH 20765	1693	2/18/2016	Manhale Inspection	None	Compl
MH 20766	1601	2/18/2016	Manhole Inspection	MH not found	Compl
MH 20772	1673	2/18/2016	Manhole Inspection	Inspected, needs cleaning	Compl
MH 20774	1672	2/18/2016	Manhola Inspection	Inspected, several loose bricks observed.	Compl
MH 20776	1663	2/18/2016	Manhole Inspection	None	Compl
MH 20777	1676	2/18/2016	Manhole Inspection	Inspection of MH	Compl
	1696	2/18/2016	Manhola Inspection	Lifted cover for inspection	Compl
MH 20778		2/18/2016		Nene	Compl
MH 20779	1692		Manhole Inspection		
MH 20781	1671	2/18/2016	Manhole Inspection	Net sanitary, Drainage manhole,	Compl
MH 20782	2472	6/20/2016	Manholo Inspection	Examined markete, Flowing freely	Compl
MH 20788	2473	6/20/2016	Manhele Inspection	Inspected manhole, Flowing freely Opened manhole inspected flow street flowing freely, Talked to	Compl
MH 20791	1957	3/30/2016	Manhole Inspection	homeowner advised to call a plumber	Compl
MH 20795	1669	2/18/2016	Mashale Inspection	No action needed	Compl
MH 20795	1664	2/18/2016	Manhole Inspection	None	Comple
	1859	3/1/2016	Manhale Inspection	Flouring Freely	Compl
1	2494	672872016	Manhole Inspection	12:09 pm opened mashole inspected flow street flowing freely. Checked building took readings with Jerome advised trustees to get an inspection from the fire department, and call Alvin & Hollis to future investigate. Trustees very pleased with our information.	Compl
				this has been going on for 2 years	
MH 20000	1857	3/1/2016	Manhale Inspection	Flouing Freely	Comple
	1665	2/18/2016	Manhale Inspection	Fix rim	Comple
MH 20004	1858	3/1/2016	Manhala Inspection	Flouring Freely	Comple
MH 20801				Spoke to trustees advised to call fire department for a building inspection, and call Alvin and Hollis plumbers to investigate further	Compl
MH 20001	2495	6/28/2016	Manhole Inspection	this has been going on for 2 years trustees were very pleased with	Genga
MH 20001	2495	6/28/2016	Manhole Inspection	this has been going on for 2 years trustees were very pleased with	Centpo
1				this has been going on for 2 years trustees were very pleased with our information	
MH 20803	1677	2/18/2016	Manhale Inspection	this has been going on for 2 years trustees were very pleased with our information Inspected, need to investigate infiltration	Comple
1	1677 1678	2/18/2016 2/18/2016	Manhale Inspection Manhale Inspection	this has been going on for 2 years trustees were very pleased with our information. Inspected, need to investigate infiltration. Inspected, Soveral Missing bricks.	Comple
1	1677	2/18/2016	Manhale Inspection	this has been going on for 2 years trustees were very pleased with our information Inspected, need to investigate infiltration	Compl

2000	3	2902	8/30/2016	Night 2 set hose in manhole 28805 for discharge from station 3 and 4 by pump trucks pulling out of webvell, for work being perferned at manhole 28811 repair of pips	Arrived at location set hose in manhole manhole 20003	Comple
4		2904	8/30/2016	Night work at manhole 20011 repair of force main discharge	Set hoses up for discharge from station 364	Comple
MH 20503		1956	3/36/2016	Manhole Inspection	Opened manhole inspected flow street flowing freely. Talked to	Comple
1111 00010		4007	004843046		homeowner advised to call a plumber	Comple
MH 20810	14	1667	2/18/2016	Manhole Inspection	Surcharged	
	*	1693	2/19/2016	Manhole Inspection	Opened MH cleaned debris from shelves	Comple
MH 20811	_	1501	1/27/2016	Manhole Inspection	Opened manhole used rosano Davis to pump out debris	Comple
		1666	2/18/2016	Manhole Inspection	inspected manhole	Comple
			2/15/2016	Manhole Inspection	corrected asset to MH 20011 from MH 20010	Comple
		1950	7/22/2016	Manhale Inspection	since evaluation Windriver has removed corroded pipe and earnersed 44 feet and found damaged pipe (Bast 15 ft). Sometime in August 2016 the last 16 ft of discharge forcemen will be slipped	Comple
					lined by a weeder of choice. T&B working with town to procure. Opened manhole confined space entry procedure performed.	
		2104	4/13/2016	Manhole Inspection	Pressure washed from street level first then leavared worker in membole finished size work then pressure washed all sides 230pm called police for street detail for 5 minutes to install a data	Comple
		2131	4/28/2016	Manhala Inspection	logger	Comple
		2275	5/13/2016	Manhale Inspection	Opened manhole took pictures with GO PRO downloaded in file	Comple
		2501	6/25/2016	Manholo Inspection	Opened manhole Windriver out pipe in 3 sections and hoisted out	Comple
	,			Contractors in for night work to repair 18ft of damaged	and removed from site, jetted line, cameraed and videaed Arrived at location, rick at station 3, john at station 4 stopped flow,began truck pumping out of wetwells and discharged in	Compli
WW 20042	V	2903	8/38/2016	force main discharge	manhole 20003 Flaving Freely	Compli
MH 20012	_	1856	3/1/2016	Manhale Inspection		
MH 20813		1502	1/27/2016	Manhole Inspection	Opened manhole saw no restrictions in the MAIN this manhole is	Compli
24010					fed by station 3,4 and hotel so 3 inlet pipes	
		1663	2/18/2016	Manhole Inspection	Clran asap	Compli
MH 20015		1855	3/1/2016	Manhole Inspection	Flowing Freely	Compli
MH 20018		1670	2/18/2016	Manhole Inspection	Lifted cover inspection of IIIH	Compli
	-	1694	2/18/2016	Manhole Inspection	Cleaned debris from shelf	Comple
HILL SECON	\rightarrow		10/1/2016	Manhola Inspection	Es.Rc opened manhele street flowing freely	Compli
MH 20822	_	3192	10/112376	matrion inspection		Series
		3602	12/21/2016	Manhole Inspection	Arrived at location opened manhele street flowing freely WIO 1 of 2	Comple
					see sems fet more info	_
MH 20824		1674	2/18/2016	Manhole Inspection	Inspection of NH	Compli
		1699	2/19/2016	Manhole Inspection	Cleaned debris from manhole	Correpti
					238pm ES,RC opened manhele 20825, line flowing freely which	
MH 20825		3190	10/1/2016	Manhole Inspection	ends up at station 4	Comple
MH 20026	-	1691	2/19/2016	Manhala lacquetion	Clean debris from MH	Comple
				Manhole Inspection		
NH 20827		1605	2/18/2016	Manhole Inspection	None None wasteness wast to INI 20020 and cleaned debuts on	Compli
		1609	2/19/2016	Manhole Inspection	After jetting upstream went to MH 26630 and cleaned debris on	Compli
					shelf	
MH 20828	-24	1675	2/18/2016	Manhole Inspection	Inspection of IIII	Comple
	2	1701	2/19/2016	Manhole Inspection	Opened manhole cleaned debris from shelves	Comple
MH 20829	8	1682	2/18/2016	Manhole Inspection	Jet debris	Comple
	1	1692	2/19/2016	Manhole Inspection	Inspection of manhole flowing freely	Comple
	U	1702	2/19/2016	Manhole Inspection	Opened manhole cleaned debris from shelves	Comple
NH 20030	5	1684	2/18/2016	Manhole Inspection	Jet line	Comple
1211 220000	_				Jetted line then cleaned debris now flowing freely	Comple
		1690	2/19/2016	Manhole Inspection		
MH 20031	W	1683	2/18/2016	Manhole Inspection	Jet debris	Compli
		1703	2/19/2016	Manhole Inspection	Opened manhole cleaned debris from shelves	Comple
MH 20063		2333	5/29/2016	20 Wyola Road.	Checked Blanhele 20863, Flowing freely, No grinder pump on property or that side of street for any house. Advised homeowner to call plumber.	Comple
		2335	5/29/2016	Manhole Inspection	Flowing Freely	Comple
			10/5/2015	Manhole Inspection	Barn Es, Jc inspected manhole for information purposes for centrasters line to be cleaned and jetted and 2 others upstream on	Comple
MH 20660	- 1	3214	TOTAL DOTA		Same Box	
				Manhola laspesting and Rulfide Inspecting	Same line Consed manbale inspected flow street flowing freely	
MH 20910	_	3214 2715 1806	7/26/2016 3/3/2016	Manholo Inspection and Sulfide Inspection Manholo Inspection	Same line Opened manhole inspected flow street flowing freely Flowing Preperly, Dirt / Debris, on Valley Beach Ave, Interal	Comple
NH 20910 NH 20935		2715 1806	7/26/2016 3/3/2016	Manhole Inspection Manhole Cover non-existent, Located on corner of	Opesed manhole inspected flow street flowing freely Flowing Preperly, Dirt / Debris on Valley Beach Ave. lateral	Compl
MH 20910 MH 20935 MH 20943		2715 1886 1894	7/26/2016 3/3/2016 3/3/2016	Manhole Inspection Manhole Cover non-existent, Located on corner of Meade Ave and Atlantic Ave	Opened manhole inspected flow street flowing freely Flowing Preperly, Dirt / Debris on Valley Beach Ave. lateral Documentation	Comple Comple Comple
NH 20910 NH 20935		2715 1806	7/25/2096 3/3/2016 3/3/2016 3/3/2016	Manhole Inspection Manhole Cover non-existent, Located on corner of Neede Ave and Atlantic Ave Manhole Inspection	Opened manhole inspected flow street flowing freely Flowing Preperly, Dirt / Debris on Valley Beach Ave. lateral Documentation Flowing Freely	Comple Comple Comple
MH 20910 MH 20935 MH 20943		2715 1886 1894	7/26/2016 3/3/2016 3/3/2016	Manhole Inspection Manhole Cover non-existent, Located on corner of Meade Ave and Atlantic Ave	Opened manhole inspected flow street flowing freely Flowing Preperly. Dirt / Debris on Valley Beach Ave. Interal Decumentation Flowing Freely Flowing Freely	Compl Compl Compl
MH 20010 MH 20035 MH 20043 MH 20046	1	2715 1886 1894 1885	7/25/2096 3/3/2016 3/3/2016 3/3/2016	Manhole Inspection Manhole Cover non-existent, Located on corner of Neede Ave and Atlantic Ave Manhole Inspection	Opened manhole inspected flow street flowing freely Flowing Preperly. Oir J Debris on Valley Beach Ave. Interal Decumentation Flowing Freely Flowing Freely Flowing Freely See sems WO for details, after pumping out overflowing manhole Rosano Davis jetted from unmapped manhole north to manhole 20053	Comple Comple Comple Comple
NH 20010 NH 20035 NH 20043 NH 20046 NH 20047	1	2715 1886 1894 1885 1884	7/26/2016 3/3/2016 3/3/2016 3/3/2016 3/3/2016	Manhole Inspection Manhole Cover non-axistent. Located on corner of Meede Ave and Atlantic Ave Manhole Inspection Manhole Inspection	Opened manhole inspected floar street flowing freely Flowing Preperly, Dirt / Debate on Valley Beach rive. Interal Documentation Flowing Freely Flowing Freely See sems W/O for details, after pumping out overflowing manhole Rosano Davis jetted from unmapped manhole north to manhole 20055 from to 136pm jetted 5 manholes in this area see sems W/O for details.	Comple Comple Comple Comple Comple
MH 28910 NH 28935 MH 28943 MH 28946 NH 28947 MH 28963	thed >	2715 1806 1894 1885 1884 3590	7/26/2016 3/3/2016 3/3/2016 3/3/2016 3/3/2016 12/19/2016	Manhole Inspection Manhole Cover non-axistent. Located on corner of Neede Ave and Atlantic Ave Manhole Inspection Nanhole Inspection Nanhole Inspection	Opened manhole inspected flour street flowing freely Flowing Preperly, Ont / Debutis on Valley Beach Ave. Interal Decumentation Flowing Freely Flowing Freely See sems WO for details, after pumping out overflowing manhole Rosano Davis jetted from unmapped manhole north to manhole 20253 form to 136pm jetted 5 manholes in this area see sems WIO for details Eric Jady Rosano Davis on site jetted and cleaned manhole 20057 from 20058 line now flowing freely see sems WIO for details of 6	Comple Comple Comple Comple Comple Comple
MH 20010 MH 20025 MH 20043 MH 20046 MH 20047 MH 20056 MH 20056 MH 20056 MH 20056	Jetted V	2715 1805 1894 1805 1804 3500 3591 3592	7/26/2016 3/3/2016 3/3/2016 3/3/2016 3/3/2016 12/19/2016 12/19/2016 12/19/2016 12/19/2016	Manhole Inspection Manhole Cover non-axialent. Located on corner of Neede Ave and Affairlic Ave Manhole Inspection Manhole Inspection Manhole Inspection Manhole Inspection Manhole Inspection Manhole Inspection	Opened manhole inspected flow street flowing freely Flowing Preperly. Dirt / Debris on Valley Beach Ave. Interal Documentation Flowing Freely Flowing Freely See sems W/O for details, after pumping out overflowing manhole Rosano Davis jetted from unmapped manhole north to manhole 20353 Sum to 136pm jetted 5 manholes in this area see sems W/O for details Eric Jady Rosano Davis on site jetted and cleaned manhole 20057 from 20058 line now flowing freely see sems W/O for details W/O 5 of 5 Manhole 20058 was the final cleaning of lines cleaned minor debris but kept going down stream until satisfied line flowing freely	Comple Comple Comple Comple Comple Comple Comple Comple
MH 28910 MH 28935 MH 28943 MH 28946 MH 28947 MH 28953 MH 28956 MH 28957 MH 28958 MH 28958	Jetted >	2715 1606 1894 1605 1604 1605 1604 3500 3501 3502 3503 1433	7/25/2016 3/3/2016 3/3/2016 3/3/2016 3/3/2016 12/19/2016 12/19/2016 12/19/2016 12/19/2016	Manhole Inspection Manhole Cover non-axistent, Located on corner of Meade Ave and Atlantic Ave Nanhole Inspection Manhole Inspection	Opened manhole inspected flour street flowing freely Flowing Preperly. Dirt / Debris on Valley Beach Ave. Interal Decumentation Flowing Freely See sems W/O for details, wher pumping out overflowing manhole Resame Davis jetted from unmapped manhole north to manhole 20253 Sum to 136pm jetted 5 manholes in this area see sesse W/O for details Eric Jedy Rosano Davis on site jetted and cleaned manhole 20057 from 20558 line now flowing freely see sems W/O for details W/O 5 of 6 Manhole 20058 was the final cleaning of lines cleaned miner debris but kept going down stream until satisfied line flowing freely Opened manhole for flow system flowing freely	Comple Comple Comple Comple Comple Comple Comple Comple Comple Comple
MH 20010 MH 20025 MH 20043 MH 20046 MH 20047 MH 20056 MH 20056 MH 20056 MH 20056	Jetted V	2715 1606 1804 1804 1605 1604 3500 2591 3592 3593 1433 1609	7/26/2016 3/3/2016 3/3/2016 3/3/2016 3/3/2016 12/19/2016 12/19/2016 12/19/2016 12/19/2016 12/19/2016	Manhole Inspection Manhole Cover non-axialent. Located on corner of Meade Ave and Affairic Ave Manhole Inspection	Opened manhole inspected flour street flowing freely Flowing Preperly, Ont / Debris on Valley Beach Ave. Interal Decumentation Flowing Freely Flowing Freely Flowing Freely See sems WO for details, after pumping out overflowing manhole Rosano Davis jetted from unmapped manhole north to manhole 20353 from 10 130pm jetted 5 manholes in this area see sems WIO for details Eric Jady Rosano Davis on site jetted and cleaned manhole 20057 from 20058 line now flowing freely see sems WIO for details WIO 5 of 5 Manhole 20058 was the final cleaning of lines cleaned minor debris but kept going down stream until satisfied line flowing freely Opened manhole for flow system flowing freely No issues	Comple Comple Comple Comple Comple Comple Comple Comple Comple Comple Comple Comple Comple Comple Comple Comple Comple
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MH 28910 MH 28935 MH 28943 MH 28946 MH 28947 MH 28953 MH 28956 MH 28957 MH 28958 MH 28958	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2715 1606 1804 1804 1605 1604 3500 2591 3592 3593 1433 1609	7/26/2016 3/3/2016 3/3/2016 3/3/2016 3/3/2016 12/19/2016 12/19/2016 12/19/2016 12/19/2016 12/19/2016	Manhole Inspection Manhole Cover non-axistent. Located on corner of Meade Ave and Atlantic Ave Manhole Inspection	Opened manhole inspected flour street flowing freely Flowing Preperly. Dirt / Debris on Valley Beach Ave. Interal Decumentation Flowing Freely Flowing Freely See sems W/O for details, wher pumping out overflowing manhole Researce Davis jetted from unmapped manhole north to manhole 20253 Sum to 136pm jetted 5 manholes in this area see seass W/O for details Eric Jedy Rosano Davis on site jetted and cleaned manhole 20957 from 20558 line now flowing freely see sems W/O for details W/O 5 of 6 Manhole 20958 was the final cleaning of lines cleaned minor debris but kept going down stream until satisfied line flowing freely Opened manhole for flow system flowing freely Opened manhole for flow system flowing freely No issues Clean sand & gravel, salisily 9.8 Jetted manhole cleaned debris camera line	Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli
MH 28910 MH 28935 MH 28946 MH 28947 MH 28963 MH 28967 MH 28967 MH 28967 MH 28969 MH 28969 MH 28969	Jetted >	2715 1805 1894 1805 1804 3500 3591 3592 3593 1433 1609 1610	7/25/2016 3/3/2016 3/3/2016 3/3/2016 3/3/2016 12/19/2016 12/19/2016 12/19/2016 12/19/2016 12/19/2016 1/5/2016 2/19/2019 2/19/2019	Manhole Inspection Manhole Cover non-axialent. Located on corner of Meade Ave and Affairlic Ave Manhole Inspection	Opened manhole inspected flow street flowing freely Flowing Preperly. Dirt / Debris on Valley Beach Ave. Interal Decumentation Flowing Freely Flowing Freely See sems W/O for details, after pumping out overflowing manhole Reserve Davis jetted from unmapped manhole north to manhole 20353 Sum to 136pm jetted 5 manholes in this area see sems W/O for details Eric Jady Rosano Davis on site jetted and cleaned manhole 20057 from 20058 line now flowing freely see sems W/O for details W/O 5 of 6 Mashole 20058 was the final cleaning of lines cleaned minor debris but kept going down stream until satisfied line flowing freely Opened manhole for flow system flowing freely No issues Clean sand & gravel, salinity 9.5	Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli
MH 20010 MH 20025 MH 20043 MH 20046 MH 20047 MH 20056 MH 20056 MH 20056 MH 20056 MH 20056 MH 20050 MH 20050	Jetted >	2715 1806 1894 1805 1804 1805 1806 3590 3591 3592 3593 1433 1609 1610 1866	7/26/2016 3/3/2016 3/3/2016 3/3/2016 3/3/2016 12/19/2016 12/19/2016 12/19/2016 12/19/2016 12/19/2016 2/19/2016 2/19/2016 2/19/2016	Manhole Inspection Manhole Cover non-axistent. Located on corner of Meade Ave and Atlantic Ave Manhole Inspection	Opened manhole inspected flour street flowing freely Flowing Preperly. Dirt / Debris on Valley Beach Ave. Interal Decumentation Flowing Freely Flowing Freely See sems W/O for details, wher pumping out overflowing manhole Researce Davis jetted from unmapped manhole north to manhole 20253 Sum to 136pm jetted 5 manholes in this area see seass W/O for details Eric Jedy Rosano Davis on site jetted and cleaned manhole 20957 from 20558 line now flowing freely see sems W/O for details W/O 5 of 6 Manhole 20958 was the final cleaning of lines cleaned minor debris but kept going down stream until satisfied line flowing freely Opened manhole for flow system flowing freely Opened manhole for flow system flowing freely No issues Clean sand & gravel, salisily 9.8 Jetted manhole cleaned debris camera line	Compli Co
MH 28910 MH 28935 MH 28946 MH 28947 MH 28963 MH 28967 MH 28967 MH 28967 MH 28969 MH 28969 MH 28969	V Street ✓	2715 1806 1894 1805 1804 3590 3591 3592 3593 1433 1609 1510 1888 1697	7/26/20/96 3/3/29/16 3/3/29/16 3/3/29/16 3/3/29/16 12/19/20/16 12/19/20/16 12/19/20/16 12/19/20/16 12/19/20/16 12/19/20/16 2/19/20/16 2/19/20/16 2/19/20/16 2/19/20/16 2/19/20/16 2/19/20/16 2/19/20/16 3/7/20/16	Manhole Inspection Manhole Cover non-axialent. Located on corner of Meade Ave and Affairlic Ave Manhole Inspection	Opened manhole inspected flow street flowing freely Flowing Preperly. Dirt / Debris on Valley Beach Ave. Interal Decumentation Flowing Freely Flowing Freely See sems W/O for details, after pumping out overflowing manhole Rosano Davis jetted from unmapped manhole north to manhole 20353 Sum to 136pm jetted 5 manholes in this area see sems W/O for details Eric Jady Rosano Davis on site jetted and cleaned manhole 20657 from 20558 line now flowing freely see sems W/O for details W/O 5 of 6 Machole 20958 was the final cleaning of lines cleaned minor debris but kept going down stream until satisfied line flowing freely Opened manhole for flow system flowing freely No issues Clean sand 6 gravel, salinity 9.5 Jetted manhole cleaned debris camera line aric and windriver jetted cleaned debris of this area eric and windriver jetted examboles cleaned debris of this area	Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli Compli
MH 28910 MH 28935 MH 28946 MH 28947 MH 28963 MH 28967 MH 28967 MH 28967 MH 28969 MH 28969 MH 28969	Jetted >	2715 1806 1894 1805 1804 3590 3591 3592 3593 1433 1609 1510 1888 1697	7/26/20/96 3/3/20/16 3/3/20/16 3/3/20/16 3/3/20/16 12/19/20/16 12/19/20/16 12/19/20/16 12/19/20/16 12/19/20/16 12/19/20/16 2/19/20/16 3/19/20/16 3/1/20/16 3/1/20/16	Manhole Inspection Manhole Cover non-axistent. Located on corner of Neede Ave and Affairlic Ave Manhole Inspection	Opened manhole inspected flour street flowing freely Flowing Preperly. Ont / Debris on Valley Beach Ave. Interal Documentation Flowing Freely Flowing Freely Flowing Freely See sems W/O for details, after pumping out overflowing manhole Rosano Davis jetted from unmapped manhole north to manhole 20053 Sum to 130pm jetted 5 manholes in this area see sems W/O for details Eric Jady Rosano Davis on site jetted and cleaned manhole 20057 from 20058 line now flowing freely see sems W/O for details W/O 5 of 6 Manhole 20058 was the final cleaning of lines cleaned minor debris but kept going down stream writl satisfied line flowing freely Opened manhole for flow system flowing freely No issues Clean sand 5 gravel, salining 9,5 Jetted manhole cleaned debris on this area eric and windriver jetted cleaned debris of this area eric and windriver jetted cleaned debris of this area Jetted manhole cleaned debris of this rea Jetted manhole cleaned debris camera line Jetted manhole cleaned debris of the flowing	Compli Co
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				H	Complete
	1617	2/16/2016	Manhole Inspection	Mone At this manhele 20965 to 20967 we had to work both ends to clear	Complete
	1009	3/1/2016	Manhole Inspection	the line	Complete
	1907	3/3/2016	Manhole Inspection	Jetted manhole camera line now flowing freely	Complete
MH 20966	1605	2/1/2016	Hanhole inspection - debris in the channel needs to be		Complete
MH 20399			jetted,	BALL LAND	
	1603	2/16/2016	Manhole Inspection	Debris in channel Jetted manhole cleaned and carnera line	Complete
	1864	3/1/2016	Manhole Inspection Nanhole has to be cleaned from dirt and debris flow not	Jetten manurate covaried and camera line	Complete
MH 20967	1607	2/1/2016	namicie has to be cleaned from dirt and determ flow not		Complete
	1611	2/16/2016	Manhole Inspection	Clean sand & gravel, salinity 9.5	Complete
1	1068	3/1/2016	Manhole Inspection	At NH 20957 and 20965 the line was heavily clogged and had to work both manholes to free debris	Complete
- 2	1070	2/25/2016	Manhole Inspection	Jetted manhale cleaned heavy debris of sand and stones partial camera of line	Complete
MH 20958 V	5000	6/2/2016	Manhole Inspection	camera or inc	Complete
	1603		Manhole has been moved by the storm February 8th		
V	1619	2/1/2016	and is missing a hunk of riser and rim of cover		Complete
	1626	2/21/2016	Manhole Inspection		Complete
17	1696	2/19/2016	Manhole Inspection	Clean manhole of dirt sand and stones	Complete
10	1713	2/23/2016	Manhole Inspection	Saw Hub Construction repairing manhole took documentation pictures	Complete
	1390	3/1/2016	Hanhole Inspection	Payed manhole	Complete
	1852	3/1/2016	Manhole Inspection	Jetted manhole cleaned +camera line ,now flowing freely	Complete
MILES VI		2/1/2016	Manhole has been moved by ocean water, and has		Complete
MH 20969	1902	201/2016	reisaligned riser to the well pit,		-
0	1984	2/21/2016	Manhole Inspection	Barrier Landschart Landschart	Complete
	1695	2/19/2016	Harhole Inspection	Removed cover cleaned debris	Complete
	1061	2/29/2016	Hanhole Inspection	Paved manhole	Complete
THE COLUMN	1063	2/1/2016	Hanhole Inspection	Jetted manhale 20959 to 2006 Dacked up abit.	Complete
MH 20971	1612	2/16/2016	Manhole Inspection	Discuss up now.	COTOTO
MIN 20272	1613	2/1/2016	Mashele inspection of Atlantic ave. Near station 1 shows that dirt and debris elegging the channel flow		Complet
MH 20972	1913	2/1/2019	shows that dirt and debris elegging the channel flow		- unique
- W	1615	2/16/2016	Manhole Inspection	None	Complet
	7412	271012210	Harriot High Contr	4/5/16 arrival 130pm departure 530pm manhole was flowing freely,	
MH 20177	2082	4/8/2016	Manhole Inspection	possible clog was a line that sweeps upstream from this manhole. After jetting added dye see picture, advised homeowner to call plerebor, then call to let us hear he made out	Complete
OPOR	2117	4/21/2016	Odor Complaint, Says sewer smell coming from manhole	Pulled Manhole cover. No smell detected by nose or H25 meter. Put wrap-o-ring to secure cover. Manhole Flowing freely	Complete
MH 20978	2093	4/7/2016	Manhole Inspection	Installation of bacteria unit # 9 in menhole 20978	Complet
MH 20982	3269	10/20/2016	Manhole Inspection	With JD, flows toward MH26965	Complete
MH 20985	3270	10/28/2016	Manhole Inspection	With JB,inspect	Complet
*ertable Electric Pump 6A	1458	1/3/2016	Need piping & fittings for in-line post use drain		Complet
PS #1 GridBee Aerator	2637	6/29/2016	Install OrldBee Aerator		Complet
PS 1	1185	1/13/2016	PS #1 Inspection - Monthly		Complete
	1362	251/2016	P3 #1 Inspection - Monthly		Complete
	1537	3/21/2016	PS #1 Inspection - Monthly		
	1780	4/14/2016	P3 #1 Inspection - Monthly		Complete
	2006	5/4/2016	PS #1 Inspection - Monthly		Complete
	2163	5/1/2016 7/1/2016	PS #1 Inspection - Monthly PS #1 Inspection - Monthly		Complet
					Complet
	2368		PR #1 has neutring - Manthly		
	2542	8/4/2016	PS #1 Inspection - Monthly		
	2542 2758	8/4/2016 9/1/2016	PS #1 Inspection - Monthly	Contacted Hall light and monitored station	Complet
	2542 2758 2848	8/4/2016 9/1/2016 8/14/2016	PS #1 Inspection - Monthly Power failure	Contacted Hall light and monitored station	Complet
	2542 2758 2848 2932	874/2016 971/2016 8/14/2016 98/1/2016	PS 81 Inspection - Monthly Power failure PS 81 Inspection - Monthly	Contacted Hall light and monitored station	Complet Complet Complet
	2542 2758 2846 2932 3101	8/4/2016 5/14/2016 8/14/2016 10/14/2016 11/7/2016	PS #1 Inspection - Monthly Power feiture PS #1 Inspection - Monthly PS #1 Inspection - Monthly	Contacted Hull light and monitored station	Complet Complet Complet Complet
	2542 2758 2848 2932	874/2016 971/2016 8/14/2016 98/1/2016	PS 81 Inspection - Monthly Power failure PS 81 Inspection - Monthly		Complet Complet Complet Complet
V	2542 2758 2848 2932 3101 3212 3304	874(2016 \$171(2016 8714(2016 9811/2016 1177/2016 1277/2016 1277/2016	PS #1 Inspection - Monthly Power failure PS #1 Inspection - Menthly PS #1 Inspection - Menthly Inspection of lower level during station checks noticed a 1" of water on floor PS #1 Inspection - Menthly	Webwell Inspected, Debris level estimated at 7%	Complet Complet Complet Complet Complet
PS 1 Building	2542 2758 2848 2932 3101 3212 3304 1847	874/2016 971/2016 871/2016 9811/2016 11/7/2016 12/7/2016 12/7/2016 12/7/2016	PS 81 Inspection - Monthly Power feiture PS 81 Inspection - Monthly PS 81 Inspection - Monthly PS 81 Inspection - Monthly Inspection of lower level during station checks noticed a 1" of water on floor PS 81 Inspection - Monthly Viryl Siding falling off	Wetwell Inspected. Debris level estimated at 7% Mike K, replaced viryl siding	Complet Complet Complet Complet Complet Complet
PS 1 Building	2542 2758 2848 2932 3101 3212 3304 1847 1938	8142016 9112016 8114/2016 1911/2016 117/2016 117/2018 12/29/2016 3/16/2016	PS #1 Inspection - Monthly Power failure PS #1 Inspection - Monthly PS #1 Inspection - Monthly Inspection of Iower level during station checks noticed a 1" of water on Roor PS #1 Inspection - Monthly Viryl Siding failing off Safety audit action item	Wetwell Inspected. Debris level estimated at 7% Mike K, replaced vinyl siding Installed safety chains and fixed hand raits.	Complet Complet Complet Complet Complet Complet Complet
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P8 1 By-Pass System	2542 2758 2848 2932 3101 3212 3304 1847 1938 2220 3546	874/2016 971/2016 971/2016 9911/2016 11/7/2016 11/7/2016 12/29/2016 12/29/2016 57/2016 12/8/2016 12/8/2016	PS #1 Inspection - Monthly Power feiture PS #1 Inspection - Monthly PS #1 Inspection - Monthly Inspection of lower level during station checks noticed a 1" of water on floor PS #1 Inspection - Monthly Vinyl Siding falling eff Safety audit action item Floor Grating Brought trash pump to station due to weather and pump #1 was removed for repair for the night PS #1 Generator Inspection and Test - Weekly	Wetwell Inspected. Debris level estimated at 7% Mike K, replaced viryl siding Installed safety chains and fixed hand raits, corepleted task from safety audit item 65 Eric + John brought trash pump to station for bypass in case of any issues while pump 1 was at shop for repairs	Complet
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P8 1 By-Pass System	2542 2758 2848 2932 3101 3212 3364 1647 1938 2220 3546 1152 1153 1194 1195	874/2016 971/2016 9011/2016 9011/2016 9011/2016 9117/2016 12/79/2016 12/79/2016 572/2016 12/5/2016 11/5/2016 11/5/2016 11/5/2016	PS #1 Inspection - Monthly Power feiture PS #1 Inspection - Monthly PS #1 Inspection - Monthly Inspection of lower level during station checks noticed a 1" of water on fleer PS #1 Inspection - Monthly Vinyl Siding falling eff Safety audit action item Floor Grating Brought trash pump to station due to weather and pump if it was removed for repair for the night PS #1 Generator Inspection and Test - Weekly	Wetwell Inspected. Debris level estimated at 7% Milko K, replaced viryl siding Installed safety chains and fixed hand rails. completed task from safety sucit item 66 Eric + John brought trash pump to station for bypass in case of any issues while pump to was at shop for repairs Power loss, Generator ran for 6 hours on 1/10/16 Load test today, engine ran speeding up and down to much, suspect that the governor is not functioning correctly, made the transfer switch discennect to line power , needs to be leoked at!	Complete Com
P8 1 By-Pass System	2542 2758 2848 2932 3101 3212 3304 1847 1938 2220 3546 1152 1153 1154 1155	874(2016 911(2016 911(2016 9011/2016 11/7/2016 11/7/2016 12/7/2016 12/7/2016 12/2016 12/6/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016	PS #1 Inspection - Monthly Power failure PS #1 Inspection - Monthly PS #1 Inspection - Monthly PS #1 Inspection - Monthly Inspection of flower level during station checks noticed a 1" of water on floor PS #1 Inspection - Monthly Vinyt Siding failing eff Safety aucht action item Floor Grating Brought trash pump to station due to weather and pump #1 was removed for repair for the night PS #1 Generator Inspection and Text - Weethy	Wetwell Inspected. Debris level estimated at 7% Mike K, replaced viryl siding Installed safety chains and fixed hand rails. completed task from safety sudii item 65 Eric + John brought trash pump to station for bypass in case of any issues while pump 1 was at shop for repairs Power loss, Generator ran for 4 hours on 1/10/16 Load test today, engine rpm speeding up and down to much, suspect that the governor is not functioning correctly, made the	Complete Com
P8 1 By-Pass System	2542 2758 2848 2902 3101 3212 3304 1847 1938 2220 3546 1192 1193 1194 1195	874/2016 971/2016 911/2016 9911/2016 1911/2016 1911/2016 19724/2016 19724/2016 19724/2016 19724/2016 1972016 1972016 1972016 1972016 1972016 1972016 1972016 1972016	PS #1 Inspection - Monthly Pener feiture PS #1 Inspection - Monthly PS #1 Inspection - Monthly Inspection of lower level during station cheeks noticed a 1" of water on flacer PS #1 Inspection - Monthly Vinyt String failing eff Safety audit action liters Floor Grating Brought trash pump to station due to weather and pump #1 was removed for repair for the night, PS #1 Generator Inspection and Test - Weekly PS #1 Generator Inspection and Load Test - Monthly PS #1 Generator Inspection and Load Test - Monthly PS #1 Generator Inspection and Load Test - Monthly PS #1 Generator Inspection and Load Test - Monthly PS #1 Generator Inspection and Load Test - Monthly PS #1 Generator Inspection and Load Test - Monthly PS #1 Generator Inspection and Load Test - Monthly	Wetwell Inspected. Debris level estimated at 7% Milko K, replaced viryl siding Installed safety chains and fixed hand rails. completed task from safety sucit item 66 Eric + John brought trash pump to station for bypass in case of any issues while pump to was at shop for repairs Power loss, Generator ran for 6 hours on 1/10/16 Load test today, engine ran speeding up and down to much, suspect that the governor is not functioning correctly, made the transfer switch discennect to line power , needs to be leoked at!	Complete Com
P8 1 By-Pass System	2542 2758 2848 2932 3101 3212 3364 1647 1938 2220 3546 1119 1193 1194 1195	874/2016 971/2016 9211/2016 9211/2016 11/7/2016 11/7/2016 12/7/2016 12/7/2016 12/8/2016 12/8/2016 11/8/2016 11/8/2016 11/8/2016 11/8/2016 11/8/2016 11/8/2016	PS #1 Inspection - Monthly Power Februe PS #1 Inspection - Monthly PS #1 Inspection - Monthly PS #1 Inspection - Monthly Inspection of Inware level during station cheeks noticed a 1" of water on Rose PS #1 Inspection - Monthly Vinyl Siding falling eff Safety audit action liter Floor Grating Brought trash pump to station due to weather and pump #1 was responded for repair for the night PS #1 Generator Inspection and Test - Weekly	Westwell Inspected. Debris level estimated at 7% Miles K, replaced viryl siding Installed safety chains and fixed hand rails. correlated task from safety sucti item 85 Eric + John brought trash pump to station for bypass in case of any issues while pump 1 was at shap for repairs Power loss, Generator can for 4 hours on 1/10/16 Load test today, engine rpm speeding up and down to much, suspect that the governor is not functioning correctly, made the transfer switch disconnect to line power , needs to be looked at! Generator Rus No Load Ran generator load test complete!	Complete Com
P8 1 By-Pass System	2542 2758 2848 2932 3101 3212 3384 1847 1938 2220 3546 1192 1193 1194 1196	874/2016 971/2016 9011/2016 9011/2016 9011/2016 11/7/2016 12/7/2016 12/2016 12/2016 12/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016 1/2016 1/2016 1/2016 1/2016 1/2016	PS #1 Inspection - Monthly Preset ribrate PS #1 Inspection - Monthly PS #1 Inspection - Monthly PS #1 Inspection - Monthly Inspection of lower level during station cheeks noticed a 1" of water on flacer PS #1 Inspection - Monthly Very String failing eff Safety audit action item Floor Grating Brought trash pump to station due to weather and pump #1 was removed for repair for the night PS #1 Generator Inspection and Test - Weekly PS #1 Generator Inspection and Test - Weekly PS #1 Generator Inspection and Test - Weekly PS #1 Generator Inspection and Lead Test - Monthly PS #1 Generator Inspection and Lead Test - Monthly PS #1 Generator Inspection and Test - Weekly PS #1 Generator Inspection and Lead Test - Monthly PS #1 Generator Inspection and Lead Test - Monthly PS #1 Generator Inspection and Test - Weekly	Wetwell Inspected. Debris level estimated at 7% Mike K, replaced viryl siding Installed safety chains and fixed hand rails. cerepleted task from safety sudit item 86 Eric + John brought trash pump to station for bypass in case of any issues while pump 1 was at shep for repairs Power loss, Generator ran for 4 hours on 1/10/16 Load test today, engine ran speeding up and down to much, suspect that the governer is not functioning correctly, made the transfer switch discernect to line power , needs to be looked at! Generator Run Ne Load Ran generator load test complete! No load	Complete Com
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Ps & gener	1 5174	eurone	PS #1 Generator Inspection and Test - Weekly	Complete
		6/1/2016	PS #1 Generator Inspection and Test - Weekly	Complete
	2172	6/1/2016		
	2173	6/1/2016	PS #1 Generator Inspection and Test - Weekly	Complete
	2174	6/21/2016	PS #1 Generator Inspection and Test - Weekly	Complete
	2175	7/1/2016	PS #1 Generator Inspection and Test - Weekly	Complete
	2242	7/22/2016	When killing power to station generator ran for 5 seconds then failed to keep running operator in line since the original failure generator has been operational.	Complete
	2375	7/0/2016	PS 81 Generator Inspection and Test - Weekly	Complete
	2376	7/54/2016	PS #1 Generator Inspection and Test - Weekly	Complete
	2377	7/1/2016	PS #1 Generator Inspection and Test - Weekly	Complete
	2378	7/31/2016	PS #1 Generator Inspection and Test - Weekly	Complete
		7/8/2016		Complete
	2379		PS 81 Generator Inspection and Load Test - Menthly	
4	2549	8/7/2016	PS #1 Generator Inspection and Test - Weekly	Complete
l'	2650	8/16/2016	PS #1 Generator Inspection and Test - Weekly	Complete
	2551	8/16/2016	PS #1 Generator Inspection and Test - Weekly	Complete
	2652	8/25/2016	PS #1 Generator Inspection and Test - Weekly	Complete
	2553	8/29/2016	PS #1 Generator Inspection and Test - Weekly Ran generator no load teday!	Complete
			PS #1 Generator Inspection and Load Test - Monthly	Cemplete
	2554	8/1/2016		
	2765	9/12/2016	PS 81 Generator Inspection and Load Test - Monthly Ran generator load test complete!	Gereplet
	2766	9/6/2016	PS #1 Generator Inspection and Test - Weekly	Complet
	2767	9/1/2016	PS #1 Generator Inspection and Test - Weekly	Complete
	2765	9/20/2016	PS #1 Generator Inspection and Test - Weekly	Complete
	2769	9/1/2016	PS #1 Generator Inspection and Test - Weekly	Complet
	2939	10/11/2016	P5 F1 Generator Inspection and Load Test - Monthly Load test complete!	Complet
	2940	10/3/2016	PB #1 Generator Inspection and Test - Weekly	Complete
	2941	10/1/2016	PS 81 Generator Inspection and Test - Weekly	Complet
	2942	10/1/2016	PS #1 Generator Inspection and Yest - Weekly	Complet
	2943	10/30/2016	PS #1 Generator Inspection and Test - Weekly	Coreplet
	3103	11/1/2016	PS #1 Generator Inspection and Load Test - Monthly	Complet
	3109	11/6/2016	PS #1 Generator Inspection and Test - Weekly	Corepte
				Complet
	3110	11/1/2016	PS #1 Generator Inspection and Test - Weekly	
	3111	11/1/2016	PS #1 Generator Inspection and Test - Weekly	Corepte
	3112	11/1/2016	PS #1 Generator Inspection and Test - Weekly	Correpte
	3113	11/28/2016	PS #1 Generator Inspection and Tost - Weekly	Corepte
	3227	10/13/2016	Replacement of the battery for the emergency generator Replaced with a new battery the old outdated one operating required,	Comple
	3311	12/1/2016	PS 81 Generator Inspection and Load Test - Monthly Work Completes.	Correplet
			PS #1 Generator Inspection and Tost - Weekly	Correplet
	3312	12/5/2016		
	3313	12/20/2016	PS #1 Generator Inspection and Test - Weekly Ran generator load test today!	Complet
W	3314	12/1/2016	PS #1 Generator Inspection and Test - Weekly Work Completed.	Complet
	3315	12/29/2016	PS #1 Generator Inspection and Test - Weekly	Correplet
5 1 GridBee Compressor	2641	7/1/2016	PS 1 aerator compressor dedicated circuit	Complet
PS 1 Piping and Valves	2795	9/7/2016	Exercise valves	Complet
PS 1 Pump 1	1374	2/29/2016	PS #1 Pump 1 PM - Quarterly	Complet
Patringt	1477	1/14/2016	Safety guard on pump 1 Wrapped pump with mesh safety guard on pump 1	Complet
	1594	2/11/2016	Loud noise coming from the top of pump, top hearing Leto pump 5 and replace the parts needed to repair the damage to retaining housing, had all boils missing, also shim took missing.	Complet
	1695	2/11/2016	stock missing, due to bolts that backed out. replaced with new parts we had in inventory! Flow of the pump lower than nermal, suspect that the pump la regord up. Flow of the pump la regord up. Flow of the pump is back to nermal!	Complet
		d-12412244		Complete
	2018	5/26/2016	PS #1 Perrip 1 PM - Quarterly	
	2555	8/11/2016	PS #1 Pump 1 PM - Quarterly	Complet
	3114	11/7/2016	PS #I Pemp 1 PM - Quarterly	Complet
1	3548	12/7/2016	Iteplaced pump assembly due to existing pump was Lote procedure performed, pulled motor set aside, pulled pump, brought back to shop used existing impeller, put on now assembly	Complet
			Over a 2 day seried of 10km job was complete reinstalled pump and motor, new operational	
P8 1 Pump 2	1375	2/23/2016	PS #I Pump 2 PM - Quarterly	
P8 1 Pump 2	1478	1/14/2016	Wrapped pump with mesh safety guard on pump 2 Wrapped pump with mesh safety guard on pump 2 Loto pump 2 and remove the rags and debris from impeller	Complet
P8 1 Pump 2	1591	1/14/2016 2/10/2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, Wrapped pump with mesh safety guard on pump 2 Loto pump 2 and remove the rags and debris from impeller replaced inspection plate and bleed the pump, flow is back to normal!	Complet
PS 1 Purp 2	1478	1/54/2016 2/10/2016 5/26/2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, PS FI Pemp 2 PM - Quarterly Wrapped pump with mesh safety guard on pump 2 Lote pump 2 and remove the rags and debris from impeller replaced inspection plate and bleed the pump, flow is back to normall	Comple Comple
P3 1 Pump 2	1591	1/14/2016 2/10/2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, Wrapped pump with mesh safety guard on pump 2 Loto pump 2 and remove the rags and debris from impeller replaced inspection plate and bleed the pump, flow is back to normal!	Complet
P3 1 Pump 2	1478 1591 2019 2556	1/54/2016 2/10/2016 5/26/2016 6/11/2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris cought in impeller, PS #1 Pump 2 PM - Quarterly	Comple Comple Comple Comple
	1478 1591 2019	1/54/2016 2/10/2016 5/26/2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, PS FI Pemp 2 PM - Quarterly Wrapped pump with mesh safety guard on pump 2 Lote pump 2 and remove the rags and debris from impeller replaced inspection plate and bleed the pump, flow is back to normall	Comple Comple Comple Comple Comple
	1478 1591 2019 2556 3115 1447	1/14/2016 2/10/2016 5/25/2016 6/11/2016 11/7/2016 1/6/2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, PS #1 Pump 2 PM - Querterly PS #1 Pump 2 PM - Querterly PS #1 Pump 2 PM - Querterly Watwell inspection Opened manhole cover inspection of debris	Comple Comple Comple Comple Comple Comple
	1678 1591 2019 2556 3115 1647 1487	1/14/2016 2/10/2016 5/26/2016 6/11/2016 11/7/2016 1/9/2016 1/21/2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, caught in impeller, PS #I Pemp 2 PM - Quarterly PS #I Pemp 2 PM - Quarterly PS #I Pemp 2 PM - Quarterly Withwell inspection Withwell inspection Uppered manhole cover inspection of debris Uppered manhole cover inspection of debris Lewerd vacuum plae armoved debris from websall	Comple Comple Comple Comple Comple Comple Comple Comple
	1478 1591 2019 2556 3115 1447 1487 1734	1/14/2016 2/10/2016 5/26/2016 8/11/2016 11/7/2016 1/0/2016 1/21/2016 2/28/2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris cought in impeller, PS FI Pemp 2 PM - Quarterly Watwell inspection Windriver in to clean webwell Watwell inspection Quarter of webwell covered with debris Quarter of webwell covered with debris Quarter of webwell covered with debris	Complei
	1478 1591 2019 2556 3115 1447 1487 1734 1895	1/14/2016 2/19/2016 5/25/2016 8/11/2016 11/7/2016 1/2/1/2016 1/2/1/2016 2/29/2016 2/1/2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris cought in impeller, PS #1 Psmp 2 PM - Quarterly Quarterly Watwell inspection Windriver in to clean workell Watwell inspection Quarter of wetwell covered with debris Quarter of wetwell covered with debris Quarter of wetwell covered with debris	Complete
	1478 1591 2019 2056 3115 1447 1487 1734 1895 1905	1/14/2016 2/19/2016 5/26/2016 8/11/2016 11/7/2016 1/2/2016 1/2/2016 2/2/2016 2/2/2016 2/2/2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, PS #1 Pemp 2 PM - Quarterly Quarterly Wishwell inspection Windriver in to clean workell Washwell inspection Dry well I was usell penetration Clean debris from webuilt with windriver Wastwell with windriver Vactored webwell with windriver	Comple
	1478 1591 2019 2556 2115 1447 1734 1895 1905 1954	1/14/2016 2/19/2016 5/25/2016 5/25/2016 5/17/2016 1/17/2016 1/21/2016 2/29/2016 2/29/2016 3/2/2016 3/2/2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, PS FI Pemp 2 PM - Quarterly Watwell inspection Glan debris from webwell Clan debris from webwell With well respection Clan debris from web with with windriver Wetwell inspection Wetwell inspection Clan debris from web with windriver Wetwell inspection Turned off station 1 for project of station 3 discharge Turned off station 1 for project of station 3 discharge Turned off station 1 for project of station 3 discharge Temporal mesh safety guard on pump 2 Wrapped pump with mesh safety guard on pump 2 Loto pump 2 and remove the rags and debris from inspection from its back to normall replaced inspection plate and bleed the pump, flow is back to normall Opened mentod the pump, flow is back to normall Clan debris from webwell Clan debris from webwell Wetwell inspected, 114 filled with debriskops. Turned off station 1 for project of station 3 discharge	Complei
	1478 1591 2019 2556 3115 1447 1487 1734 1895 1905 1954 2129	1/54/2016 2/70/2016 5/25/2016 5/25/2016 5/15/2016 1/7/2016 1/7/2016 2/23/2016 2//2016 2//2016 2//2016 2//2016 2//2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, PS FI Pemp 2 PM - Quarterly Withwell inspection Clean debris from websell Clean debris from websell Clean debris from websell Clean debris from websell Withwell inspection Clean debris from websell Websell inspection Clean debris from websell Websell inspection Turned off station 1 for project at station 3 discharge force main	Complet
	1478 1591 2019 2556 3115 1447 1734 1895 1905 1954 2129	1/14/2016 2/19/2016 5/25/2016 5/25/2016 11/7/2016 1/7/2016 1/21/2016 3/2/2016 3/2/2016 3/2/2016 4/28/2016 7/23/2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, caught in impeller, caught in impeller, pp. 5 fl. Pemp 2 PM - Guarterly PS fl. Pemp 2 PM - Guarterly PS fl. Pemp 2 PM - Quarterly PS fl. Pemp 2 PM - Quarterly PS fl. Pemp 2 PM - Quarterly Watwell inspection Windriver in to clean webwell Watwell inspection Clean debris from webusil with windriver Watwell inspection Clean debris from webusil with windriver With well inspection Clean debris from webusil with windriver With well inspection Clean debris from webusil with windriver With well inspection Clean debris from webusil with windriver Well filled with debriskags. Turned eff station 1 for project at station 3 discharge force main Inspection of wetwell for debris - PS1 Windriver in to clean vertwell Watwell inspection to observe any mishags windriver in to clean vertwell	Complet
	1478 1591 2019 2555 3115 1447 1487 1734 1895 1905 1954 2129 2238 2238	1/54/2016 2/90/2016 5/25/2016 5/15/2016 5/15/2016 1/17/2016 1/21/2016 3/23/2016 3/23/2016 3/23/2016 4/23/2016 7/23/2016 7/23/2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, PS #1 Pemp 2 PM - Quarterly Quarterly Withwell inspection Windriver in to clean workell Clean debris from webuilt with windriver Wetwell respection Clean debris from webuilt with windriver Wetwell inspection Turned off station 1 for project at station 3 discharge force main Inspection of wetwell for debris - PS1 Inspection of wetwell for debris - PS1 Inspection of wetwell for debris - PS1 Inspection of wetwell for debris - Wetherly Washington of wetwell for debris - PS1 Windriver in to clean vertreell Washington of wetwell for debris - Westerel websell Windriver in to clean vertreell	Complet
	1478 1591 2019 2556 3115 1447 1734 1895 1954 2129 2238 2238 2238 2241	1/54/2016 2/70/2016 5/25/2016 5/25/2016 5/15/2016 1/7/2016 1/7/2016 2/25/2016 2//2016 2//2016 2//2016 2//2016 2//2016 2//2016 2//2016 2//2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, PS FI Pemp 2 PM - Quarterly Watwell inspection Glan debris from webwell Conserved with debris from webwell with windriver Watwell inspection Clan debris from webwell with windriver Watwell inspection Turned eff station 1 for project at station 3 discharge force main Inspection of wetwell for debris	Complete
	1478 1591 2019 2556 3115 1447 1734 1895 1905 1954 2129 2238 2238 2238 2238 2238	1/14/2016 2/10/2016 5/25/2016 5/25/2016 1/17/2016 1/17/2016 1/21/2016 2/23/2016 3/23/2016 4/28/2016 7/22/2016 7/22/2016 5/4/2016 5/4/2016 5/4/2016 5/4/2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, caught in impeller, caught in impeller, pp. 5 FI Pemp 2 PM - Guarterly PS FI Pemp 2 PM - Quarterly Watwell inspection Windriver in to clean wotwell Clean debris from webusil with windriver Watwell inspection Clean debris from webusil with windriver Watwell inspection Clean debris from webusil with windriver Watwell inspection Turned off station 1 for project at station 3 discharge force main Inspection of webwell for debris - PS1 Inspection of webwell for debris	Comple
	1478 1591 2019 2556 3115 1447 1734 1895 1954 2129 2238 2238 2238 2241	1/54/2016 2/70/2016 5/25/2016 5/25/2016 5/15/2016 1/7/2016 1/7/2016 2/25/2016 2//2016 2//2016 2//2016 2//2016 2//2016 2//2016 2//2016 2//2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, PS FI Pemp 2 PM - Quarterly Watwell inspection Glan debris from webwell Conserved with debris from webwell with windriver Watwell inspection Clan debris from webwell with windriver Watwell inspection Turned eff station 1 for project at station 3 discharge force main Inspection of wetwell for debris	Comple
	1478 1591 2019 2556 3115 1447 1734 1895 1905 1954 2129 2238 2238 2238 2238 2238	1/14/2016 2/10/2016 5/25/2016 5/25/2016 1/17/2016 1/17/2016 1/21/2016 2/23/2016 3/23/2016 4/28/2016 7/22/2016 7/22/2016 5/4/2016 5/4/2016 5/4/2016 5/4/2016	Wrapped pump with mesh safety guard on pump 2 Wrapped pump with mesh safety guard on pump 2	Complete
	1478 1591 2019 2555 3115 1447 1487 1734 1895 1905 1954 2129 2238 2241 2238 2240 2500	1/54/2016 2/70/2016 5/25/2016 5/15/2016 5/15/2016 1/17/2016 1/27/2016 3/27/2016 3/27/2016 3/27/2016 3/27/2016 4/28/2016 4/28/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016	Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, PS #1 Pemp 2 PM - Guarterly Wishwell inspection Clean will respect to a station of debris from websell with windriver Wetwell respect to a station 3 discharge force main Turned off station 1 for project of station 3 discharge force main Inspection of webwell for debris Inspection of webwell In	Complete
	1478 1591 2019 2255 3115 3115 1734 1487 1734 1995 1995 2238 2238 2241 2236 2440 2500	1/54/2016 2/90/2016 5/25/2016 5/15/2016 1/17/2016 1/27/2016 3/27/2016 3/27/2016 3/27/2016 4/28/2016 7/22/2016 7/22/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 6/28/2016	Wrapped pump with mesh safety guard on pump 2 Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, caught in impeller, caught in impeller pump 2 PM - Guarterly	Complete Com
PS 1 Wet Well	1478 1591 2019 2555 3115 1447 1734 1895 1905 1954 2129 2238 2241 2238 2241 2286 2440 2500 2000 1186	1/54/2016 2/70/2016 5/25/2016 6/15/2016 1/17/2016 1/17/2016 1/21/2016 2/29/2016 2/29/2016 2/29/2016 4/28/2016 4/28/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 1/15/2016 1/15/2016	Wrapped pump with mesh safety guard on pump 2 Wrapped pump with mesh safety guard on pump 2 Lote pump 2 and remove the rags and debris from impeller, caught in impeller, replaced inspection place and abled the pump, flour is back to narmal!	Complete Com
PS 1 Wet Well	1478 1591 2019 2556 3115 1447 1734 1895 1954 2129 2238 2241 2236 2440 2500 2600 23000 1188	1/14/2016 2/10/2016 5/26/2016 5/15/2016 1/17/2016 1/17/2016 1/17/2016 2/17/2016 2/17/2016 2/17/2016 3/17/2016 3/17/2016 4/28/2016 5/15/2016 5/16/2016 5/16/2016 5/16/2016 5/16/2016 1/15/2016 1/15/2016 1/15/2016 1/15/2016 1/15/2016 1/15/2016 1/15/2016 1/15/2016 1/15/2016	Wrapped pump with mesh safety guard on pamp 2 No flow from pump 2 suspect that rags and debris caught in impeller, PS FI Pemp 2 PM - Guarterly Withwell inspection Clean debris from websell with windriver Withwell inspection Clean debris from websell with windriver Withwell inspection Turned off station 1 for project of station 3 discharge force main Inspection of wetwell for debris - PSI Inspection of wetwell for debris	Complete Com
PS 1 Wet Well	1478 1591 2019 2055 3115 1447 1487 1734 1895 1905 1954 2129 2238 2238 2241 2386 2440 2500 2650 3000 1188	1/54/2016 2/90/2016 5/25/2016 5/15/2016 1/11/2016 1/21/2016 3/2/2016 3/2/2016 3/2/2016 3/2/2016 4/28/2016 4/28/2016 7/22/2016 5/4/2016 7/22/2016 5/4/2016 7/22/2016 5/4/2016 7/22/2016 6/22/2016 6/22/2016 7/22/2016 6/22/2016 7/22/2016 7/22/2016 6/22/2016 7/22/2016 6/22/2016 7/22/2016 6/22/2016 7/22/2016 7/22/2016 6/28/2016 7/22/2016	Wrapped pump with mesh safety guard on pump 2	Complete Com
PS 1 Wet Well	1478 1591 2019 2556 3115 1447 1734 1895 1954 2129 2238 2241 2236 2440 2500 2600 23000 1188	1/54/2016 2/70/2016 5/25/2016 5/15/2016 5/15/2016 1/17/2016 1/17/2016 1/21/2016 2/29/2016 3/29/2016 3/29/2016 4/28/2016 4/28/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 1/15/2016	Wrapped pump with mesh safety guard on pamp 2 No flow from pump 2 suspect that rags and debris caught in impeller, PS FI Pemp 2 PM - Guarterly Withwell inspection Clean debris from websell with windriver Withwell inspection Clean debris from websell with windriver Withwell inspection Turned off station 1 for project of station 3 discharge force main Inspection of wetwell for debris - PSI Inspection of wetwell for debris	Complete Com
PS 1 Wet Well	1478 1591 2019 2055 3115 1447 1487 1734 1895 1905 1954 2129 2238 2238 2241 2386 2440 2500 2650 3000 1188	1/54/2016 2/90/2016 5/25/2016 5/15/2016 1/11/2016 1/21/2016 3/2/2016 3/2/2016 3/2/2016 3/2/2016 4/28/2016 4/28/2016 7/22/2016 5/4/2016 7/22/2016 5/4/2016 7/22/2016 5/4/2016 7/22/2016 6/22/2016 6/22/2016 7/22/2016 6/22/2016 7/22/2016 7/22/2016 6/22/2016 7/22/2016 6/22/2016 7/22/2016 6/22/2016 7/22/2016 7/22/2016 6/28/2016 7/22/2016	Wrapped pump with mesh safety guard on pump 2 Wrapped pump with mesh safety guard on pump 2 Loto pump 2 and remove the rags and debris remitted in pump 2 pum	Correplet Correplet Correplet Complet
PS 1 Wet Well	1478 1591 2019 2555 3115 1447 1487 1734 1895 1905 1954 2129 2238 2241 2238 2241 2285 2440 2500 2600 2000 1186 1363 1781	1/54/2016 2/70/2016 5/25/2016 5/15/2016 5/15/2016 1/17/2016 1/17/2016 1/21/2016 2/29/2016 3/29/2016 3/29/2016 4/28/2016 4/28/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 1/15/2016	Wrapped pump with mesh safety guard on pamp 2 Wrapped pump with mesh safety guard on pamp 2 Loto pamp 2 and nemove the rags and debris from impeller, caught in impeller, pamp 2 PM - Guarterly	Complet
PS 1 Wet Well	1478 1591 2019 2555 3115 1447 1734 1895 1905 1954 2129 2238 2233 2241 2236 2440 2500 2600 2000 1186 1363 1781 1929 1940	1/54/2016 2/70/2016 5/25/2016 5/25/2016 5/15/2016 1/17/2016 1/17/2016 1/17/2016 1/17/2016 3/17/2016 3/17/2016 3/27/2016 3/28/2016 4/28/2016 5/17/2016 5/16/2016 5/16/2016 5/16/2016 5/16/2016 1/14/2016 2/17/2016 2/17/2016 2/17/2016 1/14/2016 2/17/2016 1/14/2016 2/17/2016 1/14/2016 2/17/2016 1/14/2016 2/17/2016 1/14/2016 2/17/2016 1/14/2016 2/17/2016 1/14/2016 2/17/2016 1/14/2016 2/17/2016 1/14/2016 2/17/2016	Wrapped pump with mesh safety guard on pump 2 Wrapped pump with mesh safety guard on pump 2 No flow from pump 2 suspect that rags and debris caught in impeller, Coto pump 2 and remove the rags and debris from impeller replaced inspection place and bleed the pump, flow is back to narmal!	Complete Com
PS 1 Wet Well	1478 1591 2019 2556 3115 1447 1734 1895 1954 2129 2238 2241 2236 2440 2500 2600 3000 1188 1363 1538 1363 1538 1960 1980 2007	1/154/2016 2/190/2016 5/25/2016 5/15/2016 5/15/2016 1/17/2016 1/17/2016 1/17/2016 2/17/2016 2/17/2016 3/28/2016 3/28/2016 4/28/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 1/15/2016	Wrapped pump with mesh safety guard on pump 2 Wrapped pump with mesh safety guard on pump 2 Loto pump 2 and remove the rags and debris from impeller, caught in impeller, pp. 5 F1 Pemp 2 PM - Guarterly	Comple
PS 1 Wet Well	1478 1591 2019 2555 3115 1447 1734 1895 1905 1954 2129 2238 2233 2241 2236 2440 2500 2600 2000 1186 1363 1781 1929 1940	1/54/2016 2/70/2016 5/25/2016 5/25/2016 5/15/2016 1/17/2016 1/17/2016 1/17/2016 1/17/2016 3/17/2016 3/17/2016 3/27/2016 3/28/2016 4/28/2016 5/17/2016 5/16/2016 5/16/2016 5/16/2016 5/16/2016 1/14/2016 2/17/2016 2/17/2016 2/17/2016 1/14/2016 2/17/2016 1/14/2016 2/17/2016 1/14/2016 2/17/2016 1/14/2016 2/17/2016 1/14/2016 2/17/2016 1/14/2016 2/17/2016 1/14/2016 2/17/2016 1/14/2016 2/17/2016 1/14/2016 2/17/2016	Wrapped pump with mesh safety guard on pump 2	Complete Com
PS 1 Wet Well	1478 1591 2019 2556 3115 1447 1734 1895 1954 2129 2238 2241 2236 2440 2500 2600 3000 1188 1363 1538 1363 1538 1960 1980 2007	1/154/2016 2/190/2016 5/25/2016 5/15/2016 5/15/2016 1/17/2016 1/17/2016 1/17/2016 2/17/2016 2/17/2016 3/28/2016 3/28/2016 4/28/2016 5/15/2016 5/15/2016 5/15/2016 5/15/2016 1/15/2016	Wrapped pump with mesh safety guard on pump 2 Wrapped pump with mesh safety guard on pump 2 Loto pump 2 and remove the rags and debris from impeller, caught in impeller, pp. 5 F1 Pemp 2 PM - Guarterly	Comple

12/	1 8000	7/1/2016	DC 43 Inspection Months.		Complete
	2369 2543	8/8/2016	PS #3 Inspection - Henthly PS #3 Inspection - Henthly		Complete
	2759	9/1/2016	PS #3 Inspection - Monthly		Complete
	2859	8/17/2016	Pump out debris island from wet well by wind river, also remove the diffuser to clean it, and install a litting rope to sid in removal of diffuser.	We have cleared the rags and debris from the well well by wind river pumping ,also clean up the diffuser from the rags attached to it.	Complete
	2860	8/18/2016	Pump out debris island from wet well by wind river, also remove the diffuser to clean it, and install a lifting rope	We have cleared the rags and debris from the wet well by wind river pumping ,also clean up the diffuser from the rags attached to	Complete
	2933	11/23/2016	to aid in removal of diffuser. PS #3 Inspection - Monthly	Assisted by Eric Sutton, check out the dry well condition grease the pump and motor check sump pump operations, all good now sump pump needed to have a new check value installed, with parts we have in inventory.	Complete
1/	3102	1114/2016	PS #3 Inspection - Menthly Swapped out 4" pump to a 5" pump do to pump 2 out of		Complete
V	3213	10/6/2016	service	E5,JC swapped 4" pump to a 6" pump do to pump 2 out of service	Complete
	3305	12/25/2016	P5 #3 Inspection - Menthly	Wetwell Inspected. Debris level estimated at 50%	Complete
P8 3 Aerator	2115	4/20/2016	Inspection of wetwell aerator debris and grease	Open manhole inspect for debris and grease take picture and document on DO forms	Complet
	2128	4/28/2016	Acrator was over heating do to letting wetwell being raised for discharge project	Turned off senator until station back to normal	Complet
	2826	7/1/2016	Inspection of earater	Opened manhole inspected earater for operational status running well	Complet
PS 3 Building	1930	3/15/2016	Clean up at station 3 do to a sewage spill	Added lime fir clean up	Complet
'S 3 By-Pass System (Old)	1440	1/7/2016	Fall protection safety audit #17 Location of mystery drain back valve	Task completed safety audit item #17 Evaluate, investigate and metal detect for bypass valves also	Complet
			· · · · · · · · · · · · · · · · · · ·	located mystery drain valve	-
PS 3 Generator	1197 1198	1/5/2016 1/5/2016	PS #3 Generator Inspection and Load Test - Monthly PS #3 Generator Inspection and Test - Weekly	Ran generator load test complete! Ran generator load test complete	Complet
	1150	1/14/2016	PS #3 Generator Inspection and Test - Weekly	Power loss on 1/18/16, emergency generator ran for 4 hours under load, ran generator no food today !	Complet
	1200	1/19/2016	PS #3 Generator Inspection and Test - Weekly		Complet
	1201	1/26/2016	PS #3 Generator Inspection and Test - Weekly PS #3 Generator Inspection and Test - Weekly	No load	Comple
	1377	2/12/2016	P8 #3 Generator Inspection and Test - Weakly	Ran generator load test complete!	Comple
	1378	2/1/2016	PS #3 Generator Inspection and Test - Weekly		Comple
	1379	2/21/2016	PS #3 Generator Inspection and Test - Weekly	No load	Comple
	1380	1/26/2016	PS 83 Generator Inspection and Load Test - Monthly Intake louver assembly for the emergency generator not operating.	Had the parts at the plant, to replace the missing parts of the louver assembly , replaced parts and tested ,operating normall Again, ,	Complet
	1550	3/1/2016	P5 #3 Generator Inspection and Test - Weekly	egen.	Comple
	1551	3/16/2016	PS #3 Generator Inspection and Test - Weekly	Ran generator no load today!	Complet
	1552	3/22/2016	PS #3 Generator Inspection and Test - Weekly	Ran generator no load today)	Complet
	1793	3/1/2016 4/12/2016	PS #3 Generator Inspection and Load Test - Monthly PS #3 Generator Inspection and Load Test - Monthly	Load test	Complet
	1784	3/29/2016	PS #3 Generator Inspection and Test - Weekly	2000 (10)	Comple
	1717	4/20/2016	PS #3 Generator Inspection and Test - Weekly		Complet
	1718	5/12/2016	PS #3 Generator Inspection and Test - Weekly	weekly generator run	Complet
	2021	5/10/2016 5/24/2016	PS #3 Generator Inspection and Test - Weekly PS #3 Generator Inspection and Test - Weekly		Complet
	2023	5/1/2016	PS #3 Generator Inspection and Test - Weekly		Complet
	2024	5/4/2016	PS #3 Generator Inspection and Load Test - Monthly		Comple
	2176	6/1/2016 6/1/2016	PS #3 Generator Inspection and Test - Weekly PS #3 Generator Inspection and Test - Weekly		Comple
	2178	6/1/2015	PS #3 Generator Inspection and Test - Weekly		Comple
	2179	6/21/2016	PS #3 Generator Inspection and Yest - Weekly		Comple
	2180	7/1/2016	PS #3 Generator Inspection and Test - Weekly		Comple
	2181	6/3/2016 7/8/2016	PS #3 Generator Inspection and Load Test - Monthly PS #3 Generator Inspection and Load Test - Monthly		Comple
	2381	7/8/2016	PS #3 Generator Inspection and Test - Weekly		Comple
	2382	7/14/2016	PS #3 Generator Inspection and Test - Weekly		Comple
	2383	7/1/2016	PS #3 Generator Inspection and Test - Weekly PS #3 Generator Inspection and Test - Weekly		Comple
	2384 2557	7/31/2016 8/1/2016	PS #3 Generator Inspection and Load Test - Monthly		Comple
	2558	8/7/2016	P8 #3 Generator Inspection and Test - Weekly		Comple
	2559	8/16/2016	PS #3 Generator Inspection and Test - Weekly	Ran generator load test completel	Comple
	2560 2561	8/16/2016 8/25/2016	PS #3 Generator Inspection and Test - Weekly PS #3 Generator Inspection and Test - Weekly		Compte
	2562	8/29/2016	PS #3 Generator Inspection and Test - Weekly	Ran generator no load todayl	Comple
	2770	9/5/2015	PS #3 Generator Inspection and Test - Weekly		Comple
	2771	9/1/2016	PS #3 Generator Imspection and Test - Weekly		Comple
	2772	9/20/2016	PS #3 Generator Inspection and Test - Weekly PS #3 Generator Inspection and Test - Weekly		Comple
	2774	9/12/2016	PS #3 Generator Inspection and Load Test - Monthly	Ran generator load test complete!	Comple
	2944	10/3/2016	PS #3 Generator Inspection and Test - Weekly		Comple
	2945 2946	10/1/2016	PS #3 Generator Inspection and Test - Weekly PS #3 Generator Inspection and Test - Weekly		Comple
	2947	10/1/2016	PS #3 Generator Inspection and Test - Weekly		Comple
	2348	10/11/2016	PS #3 Generator Inspection and Load Test - Monthly	Fan belt on generator needs to be checked and tighten,	Comple
	3116	11/6/2016	PS #3 Generator Inspection and Test - Weekly		Compte
	3117	11/1/2016	PS #3 Generator Inspection and Test - Weekly PS #3 Generator Inspection and Test - Weekly		Comple
	3119	11/1/2016	PS #3 Generator Inspection and Test - Weekly		Comple
	3120	11/28/2016	PS #3 Generator Inspection and Yest - Weekly		Comple
	3121	10/13/2016		Access the belts by removing shroud and tighten 2 belts. Charge	Comple
	0220	10113/2019	lease, battery is discharging when running.	system is charging again! !	
	3228	10/13/2016	Outdated battery for the emergency generator needs to	Replaced battery on the generator also the charging system is not charging. Icose fan belt need to be tightened, operating normal	Comple
	3228		be replaced,		Complet
	3316	12/5/2016	be replaced, PS #3 Generator Inspection and Test - Weekly	charging, loose fan belt need to be tightened, operating normal again.	Complet
			be replaced,	charging, loose fan belt need to be tightened, operating normal	

7 / /	3320	12/1/2016	PS #3 Generator Inspection and Load Test - Monthly	Work Completed,	Comple
	795	3/5/2015	PS #3 Generator Inspection and Load Test - Monthly	Generator RAN LOAD-TEST, AC VOLTS - 0 HERTZ - 61 AC	Comple
	-	511111111		AMPERES - 0 VOLTS - 15 COOLANT - 130 OIL PRESS - 75	
3 Piping and Valves	2756	1/7/2016	Exercise valves		Compl
PS 3 Pump 1	1381	2/29/2016	PS #3 Pump 1 PM - Quarterly		Compl
	2025	5/26/2016	PS #3 Pump 1 PM - Quarterly		Comple
	2563	8/11/2016	P8 #3 Pump 1 PM - Quarterly		
	3122	11/4/2016	PS #3 Pump 1 PM - Quarterly	Grease the pump and motor pumps 1 and 2	Comple
PS 3 Pump 2	1382	2/29/2016	P5 #3 Pump 2 PM - Quarterly	Grease the pump and motor pumps 1 and 2	Comple
	2026	5/26/2016	PS #3 Pump 2 PM - Quarterly		Comple
	2564	8/11/2016	PS #3 Pump 2 PM - Quarterly	Using 3 chain falls and the crane truck hoisted motor up and out	Contract
	2847	8/11/2016	Pulled out pump 2 motor to be inspected	and brought back to plant for further investigation	Comple
_	3057	9/26/2016	Pump 2 Assembly in need of repain/replacement	Reassembled the wheel valve, Operating normally	Comple
	3060	9/28/2016	Pulled pump 2 do to leaking seal also inspect inside volute and wear ring	E8,Fot,BB pulled pump 2 inspected volute, made temporary volute cover out of 2 pieces of 34 phywood @ 26" in diameter also sprayed down station and cleaned loaded pump on truck brought back to plant	Comple
	3051	9/29/2016	Pulled purep 2 do to leaking seal also inspect inside volute and wear ring	ES,RC,BB pulled pump 2 inspected volute, made temporary volute cover out of 2 pieces of 3/4 phywood @ 26" in clarecter also sprayed down station and cleaned loaded pump on truck brought back to plant	Comple
	3054	9/29/2016	Pulled pump 2 do to leaking seal also inspect inside volute and wear ring	ES,RC,BB pulled pump 2 inspected volute, made temporary volute cover out of 2 pieces of 3M phywood @ 26" in clarecter also sprayed down station and cleaned loaded pump on truck brought back to plant	Comple
	3123	11/4/2016	PS #3 Pump 2 PM - Quarterly		Comple
	3395	11/16/2016	Put rubber gasket on volute do to leaking	Pressure washed station 3 removed volute cover put gasket maker and rubber gasket on volute installed wooden cover tightened bolts then a final wash of station	Comple
	3550	12/8/2016	lestall of new split seal on repaired rotating assembly	Chesterton rep cosite at plant to install the spit seal before the rotating assembly goes back into station J. Greg the rep also trained Rick Jody Bill &Aram on how the seal gets installed and some operation startup tips	Comple
	3565	12/13/2016	Pump Station Cleanout	Filled tote with 2 gal hypochlorite and rest potable water, Attached booster pump and hose and sprayed down pump level at po3	Comple
	3568	12/14/2016	Reinstalled pump and motor after being repaired	Unleaded crane truck using crane, using chain fall to lower pump, and mater installing both	Comple
	3570	12/14/2016	Eric Jodi Rick at station 3 to reinstall pump 2 mater and pump	Eric, Jadi,Rick unloaded truck lowered pump and motor for pump 2 and reinstalled	Comple
	3574	12/15/2016	Andy McKenzie installing repaired VFD and connecting electrical whilp to newly repaired rector	Arrived at station 3 assisted andy on tasks for electrical, see accord W/O for this project for start up of pump 2	Comple
¥	3580	12/15/2016	Part 2 of 3 WO station 3 of start up of pump 2, Reference WIO # 1- 3574	After getting power to pump 2 we opened the discharge and suetion sides of pump. Pump still vibrates past 40 hz Aram present he has determined to Enther Investigate issue by pulling pump and see if debris in Irns sounds like its cavitating	Comple
PS 3 Sump Pump	3406	11/22/2016	Sump pump check valve failure	Es Re replaced failed sump pump now operational	Comple
PS 3 Wet Well	1450	1/0/2016	Check wetwell for debris	Opened manhole for inspection of debris	Comple
	1736	2/29/2016	Wetwell Inspections	Low amount of debris	Comple
	1898	3/1/2016	Wet well I drywell penatrations		Comple
	1959	3/29/2016	Inspection of wetwell fer debris	Inspection of wetwell for debris to clean No cleaning required	Comple
	2109	4/14/2016	Inspection of wetwell for debris and check serator operating system	Opened manhole inspected for debris and aerator for operation	Comple
	2124	4/27/2016	Trial run on shutting of pumps a station 1, A,and 3 to see how long we can work on station 3 discharge force main at water at and nantasket ave	Turned of stations, stayed at station 3 had communications at plant to watch other stations on scada when station A wornt in alarm went check on wetwell we have a 2 hr wisdow on this project before pumps at station should be turned back on	Comple
	4000				
	2288	5/16/2016	Inspection	Non needed	
	2442	6/8/2016	Inspection of wetwell for debris	Non needed Opesed wetwell for inspection of debris 0% debris	Comple
	2442 2683	6/8/2016 7/14/2016	Inspection of wetwell for debris Wetwell inspection	Non needed Opened watwell for inspection of debris 0% debris Wetwell inspected. About 40% surface solids	Comple
V	2442 2683 3202	6/8/2016 7/14/2016 10/5/2016	Inspection of metwell for debris Wetwell inspection Wetwell inspected	Non needed Opened wetwelf for inspection of debris 0% debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present.	Comple Comple Comple
V	2442 2683 3202 3204	6/6/2016 7/14/2016 10/5/2016 10/5/2016	Inspection of wetwell far debris Wetwell inspection Wetwell inspected Wetwell inspected	Non needed Opened watwell for inspection of debris 0% debris Wetwell inspected. About 40% surface solids	Comple Comple Comple Comple
P54	2442 2683 3202 3204 1187	6/6/2016 7/14/2016 10/5/2016 10/5/2016 1/13/2016	Inspection of wetwell far debris Wetwell inspection Wetwell inspected Wetwell inspected PS #4 inspection - Monthly	Non needed Opened wetwelf for inspection of debris 0% debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present.	Comple Comple Comple Comple
P84	2442 2683 3202 3204	6/6/2016 7/14/2016 10/5/2016 10/5/2016	Inspection of wetwell far debris Wetwell inspection Wetwell inspected Wetwell inspected	Non needed Opened wetwelf for inspection of debris 0% debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present Installed on both pumps safety mesh to prevent accidentally	Comple Comple Comple Comple Comple Comple
P34	2442 2683 3202 3204 1187 1264 1486	6/8/2016 7/14/2016 10/5/2016 10/5/2016 10/5/2016 2/1/2016 1/28/2016	Inspection of wetwell for debris Wetwell inspection Wetwell Inspected Wetwell Inspected PS #4 Inspection - Monthly PS #4 Inspection - Monthly Protective mesh for pump 1 and 2	Non needed Opened wetwell for inspection of debris 0% debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present	Comple Comple Comple Comple Comple Comple
P34	2442 2583 3202 3204 1187 1264 1496 1539	6/8/2016 7/14/2016 10/5/2016 10/5/2016 10/5/2016 2/1/2016 2/1/2016 3/23/2016	Inspection of wetwell far debris Wetwell inspection Wetwell inspected Wetwell Inspected PS #4 inspection - Monthly PS #4 inspection - Monthly Protective mesh for pump 1 and 2 PS #4 inspection - Monthly	Non needed Opened wetwelf for inspection of debris 0% debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present Installed on both pumps safety mesh to prevent accidentally	Comple Comple Comple Comple Comple Comple Comple Comple
P3 4	2442 2683 3202 3204 1167 1264 1486 1539 1782	6/8/2016 7/14/2016 18/5/2016 18/5/2016 19/5/2016 19/5/2016 2/1/2016 1/28/2016 3/25/2016 4/14/2016	Inspection of wetwell far debris Wetwell Inspection Wetwell Inspected Wetwell Inspected PS #4 Inspection - Monthly PS #4 Inspection - Monthly Protective mesh for pump 1 and 2 PS #4 Inspection - Monthly PS #4 Inspection - Monthly PS #4 Inspection - Monthly	Non needed Opened wetwelf for inspection of debris 0% debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present Installed on both pumps safety mesh to prevent accidentally	Compli Compli Compli Compli Compli Compli Compli Compli Compli
P34	2442 2683 3202 3204 1187 1264 1496 1539 1782 2808	6/8/2016 7/14/2016 10/5/2016 10/5/2016 10/5/2016 1/13/2016 2/1/2016 1/26/2016 3/21/2016 4/14/2016 5/4/2016	Inspection of wetwell far debris Wetwell Inspection Wetwell Inspected Wetwell Inspected Wetwell Inspected PS 64 Inspection - Monthly PS 64 Inspection - Monthly Protective mesh for pump 1 and 2 PS 64 Inspection - Monthly	Non needed Opened wetwelf for inspection of debris 0% debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present Installed on both pumps safety mesh to prevent accidentally	Comple Comple Comple Comple Comple Comple Comple Comple Comple Comple Comple
P34	2442 2553 3202 3204 1187 1264 1486 1539 1782 2868 2165	6/8/2016 7/14/2016 10/5/2016 10/5/2016 10/5/2016 2/1/2016 2/1/2016 1/28/2016 3/29/2016 4/14/2016 6/1/2016 6/1/2016	Inspection of wetwell far debris Wetwell inspection Wetwell inspected Wetwell Inspected PS 64 inspection - Morthly PS 64 inspection - Morthly Protective mesh for pump 1 and 2 PS 64 inspection - Morthly	Non needed Opened wetwelf for inspection of debris 0% debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present Installed on both pumps safety mesh to prevent accidentally	Comple Co
P3 4	2442 2853 3202 3204 1167 1364 1486 1539 1782 2808 2165 2370	6/8/2016 7/14/2016 7/14/2016 10/5/2016 10/5/2016 1/13/2016 1/13/2016 1/20/2016 4/14/2016 6/1/2016 6/1/2016 7/1/2016	Inspection of wetwell far debris Wetwell Inspection Wetwell Inspected Wetwell Inspected PS 64 Inspection - Monthly PS 64 Inspection - Monthly Protective mesh for pump 1 and 2 PS 64 Inspection - Monthly	Non needed Opened wetwelf for inspection of debris 0% debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present Installed on both pumps safety mesh to prevent accidentally	Comple Co
P34	2442 2853 3300 3204 1187 1264 1486 1539 1782 2808 2165 2370 2544	6/8/2016 7/14/2016 10/5/2016 10/5/2016 10/5/2016 1/13/2016 2/1/2016 1/28/2016 4/14/2016 5/4/2016 6/1/2016 6/1/2016 6/1/2016 6/1/2016	Inspection of wetwell far debris Wetwell Inspection Wetwell Inspected Wetwell Inspected PS 64 Inspection - Monthly PS 64 Inspection - Monthly Protective mesh for pump 1 and 2 PS 64 Inspection - Monthly	Non needed Opened wetwelf for inspection of debris 0% debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present Installed on both pumps safety mesh to prevent accidentally	Compli Co
P34	2442 2853 3202 3204 1167 1364 1486 1539 1782 2808 2165 2370	6/8/2016 7/14/2016 7/14/2016 10/5/2016 10/5/2016 1/13/2016 1/13/2016 1/20/2016 4/14/2016 6/1/2016 6/1/2016 7/1/2016	Inspection of wetwell far debris Wetwell Inspection Wetwell Inspected Wetwell Inspected PS 64 Inspection - Monthly PS 64 Inspection - Monthly Protective mesh for pump 1 and 2 PS 64 Inspection - Monthly	Non needed Opened watwell for inspection of debris ON debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present. Instelled en both pumps safety mesh to prevent accidentally coming in contact with retailing parts. Assisted by Eric Setten we checked out the dry well and grease the pump and motor check sump pump operations. All good at this	Complication of Complication o
P34	2442 2853 33002 3204 1187 1264 1486 1539 1782 2808 28165 2370 2544 2760 2934	6/8/2016 7/14/2016 7/14/2016 10:5/2016 10:5/2016 10:5/2016 10:5/2016 10:202016 10:202016 10:202016 5/4/2016 5/4/2016 5/4/2016 10:2016 10:2016 11/2016 11/2016	Inspection of wetwell far debris Wetwell Inspection Wetwell Inspected Wetwell Inspected PS 64 Inspection - Monthly PS 64 Inspection - Monthly Protective mesh for pump 1 and 2 PS 64 Inspection - Monthly	Non needed Opened watwell for inspection of debris ON debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present Instelled on both pumps safety mesh to prevent accidentally coming in contact with relating parts. Assisted by Eric Setten we checked out the dry well and grease the pump and motor check sump pump operations. All good at this time	Comple Co
P34	2442 2883 33002 3204 1187 1264 1496 1539 1782 2808 2165 2370 2544 2750	6/8/2016 77/4/2016 77/4/2016 19:5/2016 19:5/2016 19:5/2016 19:3/2016 19:2016 19:2016 49:4/2016 69:1/2016 69:1/2016 19:2016 19:1/2016 19:1/2016 19:1/2016	Inspection of wetwell far debris Wetwell Inspection Wetwell Inspected Wetwell Inspected PS 64 Inspection - Monthly Protective mesh for pump 1 and 2 PS 64 Inspection - Monthly	Non needed Opened watwell for inspection of debris 0% debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present Instelled on both pumps safety mesh to prevent accidentally coming in contact with relating parts. Assisted by Eric Setten we checked out the dry well and grease the pump and motor check sump pump operations. All good at this time Wetwell inspected, Debris level estimated at 3%	Comple Co
P34	2442 2853 33002 3204 1187 1264 1486 1539 1782 2808 28165 2370 2544 2760 2934	6/8/2016 7/14/2016 7/14/2016 10:5/2016 10:5/2016 10:5/2016 10:5/2016 10:202016 10:202016 10:202016 5/4/2016 5/4/2016 5/4/2016 10:2016 10:2016 11/2016 11/2016	Inspection of wetwell far debris Wetwell Inspected Wetwell Inspected PS 64 Inspection - Monthly PS 64 Inspection - Monthly Protective mesh for pump 1 and 2 PS 64 Inspection - Monthly	Non needed Opened watwell for inspection of debris ON debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present Instelled on both pumps safety mesh to prevent accidentally coming in contact with relating parts. Assisted by Eric Setten we checked out the dry well and grease the pump and motor check sump pump operations. All good at this time	Comple Co
PS 4 Building	2442 2883 3302 3204 1187 1364 1496 1539 1782 2808 2165 2370 2544 2780 2934 3103 3306	6/8/2016 77/14/2016 77/14/2016 19/5/2016 19/5/2016 19/5/2016 2/9/2016 2/9/2016 3/2/2016 4/54/2016 6/9/2016 6/9/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016	Inspection of wetwell far debris Wetwell Inspected Wetwell Inspected PS 64 Inspection - Morthly Protective mesh for pump 1 and 2 PS 64 Inspection - Morthly Pumps 1 & 2 Electrical Replacing	Non needed Opened watwell for inspection of debris 0% debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present. Installed on both pumps safety mesh to prevent accidentally coming in contact with relating parts. Assisted by Eric Setton we checked out the dry well and grease the pump and motor check sump pump operations. All good at this time Wetwell inspected, Debris level estimated at 3% Glenn from PES Electrical Systems on site. Replaced junction box and wiring inside for Pumps 1 and 2 using seal light PNC for piping containing wires. Piped in outlet for sump pump. Installed new high level float for drywell, Installed new light fixture for lower level. Looks good	Comple Co
V PS 4 Building	2442 2853 33002 3204 1187 1187 1539 1782 2808 2165 2370 2544 2760 2934 3103 3306	6/8/2016 7/14/2016 19:5/2016 19:5/2016 19:5/2016 19:3/2016 19:3/2016 19:3/2016 19:4/2016 5/4/2016 5/4/2016 5/4/2016 19:4/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016	Inspection of wetwell far debris Wetwell Inspected Wetwell Inspected PS #4 Inspection - Monthly PS #4 Inspection - Monthly Protective mesh for pump 1 and 2 PS #4 Inspection - Monthly	Non needed Opened watwell for inspection of debris O's debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present Installed on both pumps safety mesh to prevent accidentally coming in contact with retaining parts. Assisted by Erio Setten we checked out the dry well and grease the pump and motor check sump pump operations. All good at this time Wetwell inspected, Debris level estimated at 3% Glenn from FES Electrical Systems on site. Replaced junction bex and wiring inside for Pumps 1 and 2 using seal tight PVC for piping containing wires. Piped in outlet for sump pump, Installed new high level float for drywell, Installed new light fixture for lower level. Looks good RECK CLARK PAINTED BACK OF STATION	Comple Co
V	2442 2883 3302 3204 1187 1364 1496 1539 1782 2808 2165 2370 2544 2780 2934 3103 3306	6/8/2016 77/14/2016 77/14/2016 19/5/2016 19/5/2016 19/5/2016 2/9/2016 2/9/2016 3/2/2016 4/54/2016 6/9/2016 6/9/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016 11/2016	Inspection of wetwell far debris Wetwell Inspected Wetwell Inspected PS 64 Inspection - Morthly Protective mesh for pump 1 and 2 PS 64 Inspection - Morthly Pumps 1 & 2 Electrical Replacing	Non needed Opened watwell for inspection of debris ON debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present. Instelled on both pumps safety mesh to prevent accidentally coming in contact with retailing parts. Assisted by Eric Setten we checked out the dry well and grease the pump and motor check sump pump operations. All good at this time Wetwell inspected, Debris level estimated at 3% Glenn from FES Electrical Systems on site, Replaced junction box and wiring inside for Pumps 1 and 2 using seal tight PNC for piping containing wires. Piped in outlet for sump pump. Installed new high level float for drywell, Installed new light fidure for lower level. Looks good RUCK CLARK PAINTED BACK OF STATION Ron generator lead test complete!	Comple Co
V PS 4 Building	2442 2853 33002 3204 1167 1167 1164 1466 1539 1782 2808 2165 2370 2544 2760 2934 3103 3306 3400	6/8/2016 7/14/2016 7/14/2016 105/5/2016 105/5/2016 10/13/2016 10/13/2016 10/20/2016 10/20/2016 10/20/2016 10/20/2016 10/20/2016 11/20/2016 11/20/2016 11/20/2016 11/20/2016 11/20/2016 11/20/2016 11/20/2016 11/20/2016 11/20/2016 11/20/2016 11/20/2016	Inspection of wetwell far debris Wetwell Inspected Wetwell Inspected Wetwell Inspected PS 64 Inspection - Monthly PS 64 Inspection - Monthly Protective mesh for pump 1 and 2 PS 64 Inspection - Monthly PS 64 Ins	Non needed Opened watwell for inspection of debris O's debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present Installed on both pumps safety mesh to prevent accidentally coming in contact with retaining parts. Assisted by Erio Setten we checked out the dry well and grease the pump and motor check sump pump operations. All good at this time Wetwell inspected, Debris level estimated at 3% Glenn from FES Electrical Systems on site. Replaced junction bex and wiring inside for Pumps 1 and 2 using seal tight PVC for piping containing wires. Piped in outlet for sump pump, Installed new high level float for drywell, Installed new light fixture for lower level. Looks good RECK CLARK PAINTED BACK OF STATION	Comple Co
V PS 4 Building	2442 2883 3302 3204 1187 1264 1496 1539 1782 2165 2370 2544 2760 2934 3103 3306 3400 3400	6/8/2016 7/14/2016 7/14/2016 7/14/2016 10/5/2019 10/5/2016 10/5/2016 10/5/2016 10/5/2016 10/5/2016 10/5/2016 10/5/2016 11/5/2016 11/5/2016 11/7/2016 11/7/2016 11/7/2016 11/5/2016 11/5/2016 11/5/2016 11/5/2016 11/5/2016	Inspection of wetwell far debris Wetwell Inspection Wetwell Inspected Wetwell Inspected PS #4 Inspection - Monthly PS #4 Inspecti	Non needed Opened wetwell for inspection of debris 0% debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present. Installed on both pumps safety mesh to prevent accidentally coming in contact with relating parts. Assisted by Eric Setten we checked out the dry well and grease the pump and motor check sump pump operations. All good at this time Wetwell inspected. Debris level estimated at 3% Glenn from PES Electrical Systems on site. Replaced junction box and wiring inside for Pumps 1 and 2 using seal tight PVC for piping containing wires. Piped in outlet for sump pump. Installed new high level float for drywell. Installed new light fixture for lower level. Looks good RICK CLARK PAINTED BACK OF STATION Ron generator lead test complete! Power loss on 1/10/136 the emergency generator ran for aprex.4	Complete Com
V PS 4 Building	2442 2853 33002 3204 1167 1167 1164 1466 1539 1782 2808 2165 2370 2544 2760 2934 3103 3306 3400	6/8/2016 7/14/2016 7/14/2016 105/5/2016 105/5/2016 10/13/2016 10/13/2016 10/20/2016 10/20/2016 10/20/2016 10/20/2016 10/20/2016 11/20/2016 11/20/2016 11/20/2016 11/20/2016 11/20/2016 11/20/2016 11/20/2016 11/20/2016 11/20/2016 11/20/2016 11/20/2016	Inspection of wetwell far debris Wetwell Inspected Wetwell Inspected Wetwell Inspected PS 64 Inspection - Monthly PS 64 Inspection - Monthly Protective mesh for pump 1 and 2 PS 64 Inspection - Monthly PS 64 Ins	Non needed Opened wetwell for inspection of debris 0% debris Wetwell inspected. About 40% surface solids Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present. Wetwell inspected. Little to no debris present. Installed on both pumps safety mesh to prevent accidentally coming in contact with relating parts. Assisted by Eric Setten we checked out the dry well and grease the pump and motor check sump pump operations. All good at this time Wetwell inspected. Debris level estimated at 3% Glenn from PES Electrical Systems on site. Replaced junction box and wiring inside for Pumps 1 and 2 using seal tight PVC for piping containing wires. Piped in outlet for sump pump. Installed new high level float for drywell. Installed new light fixture for lower level. Looks good RICK CLARK PAINTED BACK OF STATION Ron generator lead test complete! Power loss on 1/10/136 the emergency generator ran for aprex.4	Comple Co

054 Gen.

	Gen,					
		1383	2/1/2016	PS #4 Generator Inspection and Load Test - Monthly		Complet
		1304	2/2/2016	PS #4 Generator Inspection and Test - Weekly	No lead	Complet
		1365	2/12/2016	PS #4 Generator Inspection and Test - Weekly	Ran generator load test complete!	Complet
		1386	2/17/2016	PS #4 Generator Inspection and Test - Weekly		Complete
		1387	2/21/2016	PS #4 Generator Inspection and Test - Weekly	No load	Complete
		1446	1/6/2016	Performance of the engine on emergency generator for station 4 is not sufficient for the staring of pumps suspect that the governor needs adjusting and a spark plug change will fix the issue,	During lead testing of emergency generator engine performance not good highland power co. Came and changed plugs and adjusted rpm of engine, fouled spark plugs to be the cause also could use a set of sparkplug wires I We were told .we can do that at a later date.	Complete
		1554	3/6/2016	PS #4 Generator Inspection and Load Test - Monthly	Generator LOAD-TEST performed, HERTZ - 60, AC VOLTS - 480, AC AMPERES - 0, OIL PRESS - 75, WATER TEMP - 180, BATTERY - 14,	Complete
		1556	3/1/2016	P8 #4 Generator Inspection and Test - Weekly		Complete
		1557	3/16/2016	PS #4 Generator Inspection and Test - Weekly	Ran generator no load today!	Complete
		1558	3/1/2016	PS #4 Generator Inspection and Test - Weekly		Complete
		1799	3/29/2016	PS #4 Generator Inspection and Test - Weekly		Complete
		1802	4/20/2016	PS #4 Generator Inspection and Test - Weekly		Complete
		1803	5/12/2016	PS #4 Generator Inspection and Test - Weekly	weekly generator run	Complete
		1004	4/12/2016	PS #4 Generator Inspection and Load Test - Monthly	Load test	Complet
		2027	5/4/2016	PS #4 Generator Inspection and Load Test - Monthly		Complet
		2029	5/10/2016	PS #4 Generator Inspection and Test - Weekly		Complet
		2030	5/24/2016	PS #4 Generator Inspection and Test - Weekly		Complet
		2031	5/1/2016	PS #4 Generator Inspection and Test - Weekly		Complet
		2182	6/3/2016	PS #4 Generator Inspection and Load Test - Monthly		Complet
		2183	6/1/2016	PS #4 Generator Inspection and Test - Weekly		Complet
		2184	6/1/2016	P8 #4 Generator Inspection and Test - Weekly		Complet
		2185	6/1/2016	P8 #4 Generator Inspection and Test - Weekly		Complet
		2186	8/21/2016	P8 #4 Generator Inspection and Test - Weekly		Complet
		2187	7/1/2016	PS #4 Generator Inspection and Test - Weekly		Complet
		2385	718/2016	PS #4 Generator Inspection and Test - Weekly		Complet
		2386	7/14/2016	PS #4 Generator Inspection and Test - Weekly		Complet
		2387	7/1/2016	PS #4 Generator Inspection and Test - Weekly		Complet
		2388	7/31/2016	PS #4 Generator Inspection and Test - Weekly		Complet
		2389	7/8/2016	PS #4 Generator Inspection and Load Test - Monthly		Complet
		2565	8/7/2016	PS #4 Generator Inspection and Test - Weekly		Complet
		2566	8/16/2016	PS #4 Generator Inspection and Test - Weekly	Ran generator load test complete!	Complet
		2567	8/16/2016	PS #4 Generator Inspection and Test - Weekly		Complet
	_	2568	8/25/2016	PS #4 Generator Inspection and Test - Weekly	Ran generator no load today!	Complet
	_	2549	8/29/2016	PS #4 Generator Inspection and Test - Weekly	Ran generator no load today!	Complet
	_	2570	8/1/2016	PS #4 Generator Inspection and Load Test - Monthly	real generalist no read today:	Comple
	_	2775	9/12/2016	P8 #4 Generator Inspection and Load Test - Monthly	Ran generator load test completel	Complet
_	_				Nam generator sous test company	Complet
	-	2776	8/6/2016	PS #4 Generator Inspection and Test - Weekly		
	_	2777	9/1/2016	PS #4 Generator Inspection and Test - Weekly		Complet
	_	2778	9/20/2016	PS #4 Generator Inspection and Test - Weekly		Complet
	_	2779	9/1/2016	PS #4 Generator Inspection and Test - Weekly	Loods of contrast	Complet
		2949	10/11/2016	PS #4 Generator Inspection and Load Test - Monthly	Load test completel	Complet
		2950	10/3/2016	PS #4 Generator Inspection and Test - Weekly		Complet
		2951	10/1/2016	PS #4 Generator Inspection and Test - Weekly		Complet
	_	2952	10/1/2016	PS #4 Generator Inspection and Test - Weekly		Complet
		2953	10/30/2016	PS #4 Generator Inspection and Test - Weekly		Complet
	_	3124	11/1/2016	PS #4 Generator Inspection and Load Test - Monthly		Complet
	_	3125	11/6/2016	PS #4 Generator Inspection and Test - Weekly		Complet
		3126	11/1/2016	PS #4 Generator Inspection and Test - Weekly		Complet
	_	3127	11/1/2016	PS #4 Generator Inspection and Test - Weekly		Complet
	_	3128	11/1/2016	PS #4 Generator Inspection and Test - Weekly		Comple
	_	3129	11/28/2016	PS #4 Generator Inspection and Test - Weekly		Complet
		3229	10/13/2016	Battery for the emergency generator needs to be replaced ,eundated 2007 vintage!	Remove the old battery and replace, with new replacement!	Complet
		3321	12/1/2016	P8 #4 Generator Inspection and Load Test - Monthly	Work Completed.	Comple
		3322	12/5/2016	P8 #4 Generator Inspection and Test - Weekly		Complet
	1	3323	12/20/2016	P3 #4 Generator Inspection and Test - Weekly	Ran generator load test todayl	Complet
	W	3324	12/1/2016	PS #4 Generator Inspection and Test - Weekly	Work Completed.	Complet
	4	3325	12/29/2016	PS #4 Generator Inspection and Test - Weekly		Complet
PS 4 GridBe	ee Aerator	2638	7/7/2016	Install BridBee Assator		Complet
		2648 3389	7/1/2016 11/12/2016	Install acrator in wet well Wire in to breaker panel and on/off switch	Work completed on 11/6/16.conduit and wiring completed by Glenn	Comple
	Compressor	2642	7/1/2016	P5 4 compressor dedicated electrical circuit	Fellows	Comple
8 4 Piging	and Valves	2797	9/7/2016	Exercise valves		Comple
	1	2834	8/6/2016	Inspection of the pumps at station 4 grease, and	PM Completed, Refer to previous work	Complet
90 (0)	uma 4	1388	2/29/2016	measure the check valves for size PS #4 Pump 1 PM - Quarterly	Grease the pump and motor	Comple
P8 4 Pa	and t	1493	2/4/2016	Drive coupler in need of replacement,	areas are party and motor	Complet
		1504	6/8/2016	Change coupler on pump 1	Changed out coupler	Complet
		2032	5/28/2016	P8 #4 Pump 1 PM - Quarterly	analyse on cooper	Complet
		2571	8/11/2016	P8 #4 Pump 1 PM - Quarterly		Complet
	*	3130	11/4/2016	P8 #4 Pump 1 PM - Quarterly		Complet
P5 4 Pc	omn 2	1389	2/29/2016	P8 #4 Pump 2 PM - Quarterly	Grease the pump and motor	Complet
7347		1505	1/29/2016		With Tom Decosta, Eric Sutton no check soft-start and bypass start up of both pumps. Pump 2 drawing 48 amps, versus 33 amps for pump one. Pump 2 pumps ck, but comes to dead stop, when shul down. Suspect debris in volute in between casing and impeller.	Complet
		2033	5/26/2016	PS #4 Pump 2 PM - Quarterly		Complet
	_	2033	8/11/2016	PS #4 Pump 2 PM - Quarterly		Complet
	*	3131	11/4/2016	PS #4 Pump 2 PM - Quarterly		Complet
P8 4 We	at Wall	1451	1/8/2016	Check manhole for debris	Opened manhole for inspection of debris	Complet
F-3 4 W		1488	1/21/2016	Windriver in to clean webself	Lowered vacuum pipe removed debris from wetwell	Complet
		1737	2/29/2016	Wetwell inspection	Quarter of wetwell covered in debris	Complet
		1888	3/1/2016	Wet well / drywell penstrations for aeration system	444000 40 000000 4000000000000000000000	Complet
				Cleaned webwell of debris with windriver	Vactored wetwell of debris with windriver	Complet
		1910	3/3/2016 3/29/2016		Vactored wetwell of debris with windriver Wetwell Inspected. Slight amount of rags and debris on surface of	Comple

		7/77/77/10	Inspection of controll 6 - 4 to 4	unia deli con in da calcana con de call	P
	2239	7/22/2016 5/16/2016	Inspection of wetwell for debris Inspection	windriver in to clean wetwell Nonitor debris accumulation	Compl
	2443	6/1/2016	Inspection of wetwell for debris	invinior occus accumulation	Compl
1/	2684	7/14/2016	Webwell inspection	Wetwell Inspected, Little to no surface solids	Compl
V	3205	10/5/2016	Webwell Inspected	Webwell Inspected. Little to no debris present	Compl
P8 5	1188	1/13/2016	PS #5 Inspection - Monthly		Compl
	1365	2/1/2016	PS #5 Inspection - Monthly	Covered with safety mesh both pumps, to prevent the possibility	Comp
	1494	1/25/2016	Safety mesh for pump 1 and 2	of accident of rotating parts,	Comp
	1540	3/21/2016	PS #5 Inspection - Monthly	or annual or reasons parts.	Comp
	1783	4/14/2016	P8 #5 Inspection - Monthly		Comp
	2009	5/4/2016	P8 #5 Inspection - Monthly		Comp
	2166	6/1/2016	P8 #5 Inspection - Monthly		Comp
	2371	7/1/2016	P8 #5 Inspection - Monthly		Comp
	2545 2761	8/1/2016 9/1/2016	PS #5 Inspection - Monthly PS #5 Inspection - Monthly		Corre
				We removed the debris from wet well and the aeration diffuser,	
	2861	8/17/2016	Pump out debris island from wet well by wind river!	assisted by wind river! Assisted by Eric Sutton, we checked out the dry well condition and	Comp
	2935 3104	11/23/2016	PS #5 Inspection - Monthly PS #5 Inspection - Monthly	grease the pump and motor, check out the sump pump operations, all good at this time.	Comp
₩	3307	12/29/2016	PS #5 Inspection - Monthly PS #5 Inspection - Monthly	Wetwell Inspected, Debris level estimated at 19%	Comp
PS 5 Building	3403	11/22/2016	Hatch grating weak	eric was dispatched work order cut plywood to fit over grating	Comp
PS 5 Generator	1207	1/5/2016	PS #5 Generator Inspection and Load Test - Monthly	and the same of th	Compl
	1208	1/5/2016	PS #5 Generator Inspection and Test - Weekly	Ran generator load test complete	Comp
	1209	1/14/2016	PS #5 Generator Inspection and Test - Weekly	Power loss on 1/10 /16 the emergency generator ran for 4 hours under load,	Comp
	1210	1/19/2016	PS #5 Generator Inspection and Test - Weekly	Ran generator no load today!	Comp
	1211	1/28/2014	PS #5 Generator Inspection and Test - Weekly		Comp
	1350	2/2/2016	PS #5 Generator Inspection and Test - Weekly	No load	Comp
	1391	2/12/2016	P8 #5 Generator Inspection and Test - Weekly	Ran generator load test complete	Comp
	1352	2/17/2016	PS #5 Generator Inspection and Test - Weekly		Comp
	1393	2/21/2016	PS #5 Generator Inspection and Test - Weekly	No load	Comp
	1394	2/1/2016	PS #5 Generator Inspection and Load Test - Monthly PS #5 Generator Inspection and Test - Weekly	Ran generator no load today)	Comp
	1560	3/11/2016	PS #5 Generator Inspection and Test - Weekly PS #5 Generator Inspection and Test - Weekly	Ran generator no load today!	Comp
	1562	3/1/2016	PS #5 Generator Inspection and Test - Weekly	Take a straight the straight with the	Comp
	1563	3/4/2016	PS #5 Generator Inspection and Load Test - Monthly	Ran generator load test complete!	Cempi
	1805	4/12/2016	PS #5 Generator Inspection and Load Test - Monthly	Load test	Cemp
	1806	3/29/2016	PS #5 Generator Inspection and Test - Weekly		Comp
	1809	4/20/2016	PS #5 Generator Inspection and Test - Weekly		Comp
	1810	5/12/2016	PS #5 Generator Inspection and Test - Weekly	weekly generator run	Comp
	2035	5/10/2016	PS #5 Generator Inspection and Test - Weekly		Comp
_	2036	5/24/2016 5/1/2016	PS #5 Generator Inspection and Test - Weekly PS #5 Generator Inspection and Test - Weekly		Comp
	2038	5/4/2016	PS #5 Generator Inspection and Load Test - Monthly		Comp
	2188	6/1/2016	PS #5 Generator Inspection and Test - Weekly		Comp
	2189	6/1/2016	P8 #5 Generator Inspection and Test - Weekly		Comp
	2190	6/1/2016	P8 #5 Generator Inspection and Test - Weekly		Comp
	2191	6/21/2016	PS #5 Generator Inspection and Test - Weekly		Compl
	2192	7/1/2016	P8 #5 Generator Inspection and Test - Weekly		Cempi
	2193	6/3/2016	PS #5 Generator Inspection and Load Test - Monthly		Comp
	2284	5/16/2016 7/8/2016	Leaking coolant PS #5 Generator Inspection and Load Test - Monthly		Cemp
_	2391	7/8/2016	PS 65 Generator Inspection and Test - Weekly		Cemp
	2392	7/14/2016	PS #5 Generator Inspection and Test - Weekly		Cemp
	2393	7/1/2016	PS #5 Generator Inspection and Test - Weekly		Comp
	2384	7/31/2016	PS #5 Generator Inspection and Test - Weekly		Compl
	2483	6/25/2016	Redo wiring and install new breaker	Glenn repl and install new circuit breaker and wiring.	Compl
-	2573	8/1/2016	PS #5 Generator Inspection and Load Test - Monthly		Compl
	2574 2575	8/7/2016	PS #5 Generator Inspection and Test - Weekly	Ran generator load test completel	Compl
	2576	8/16/2016 8/16/2016	PS #5 Generator Inspection and Test - Weekly PS #5 Generator Inspection and Test - Weekly	Harrigenerative toda teat completes	Comp
	2577	8/25/2016	PS #5 Generator Inspection and Test - Weekly	Ran generator no load today!	Comp
	2578	8/29/2016	PS #5 Generator Inspection and Test - Weekly	Ran generator no load todayl	Comp
	2789	9/6/2016	PS #5 Generator Inspection and Test - Weekly		Comp
	2781	9/1/2016	P5 #5 Generator Inspection and Test - Weekly		Comp
	2782	9/20/2016	PS #5 Generator Inspection and Test - Weekly		Comp
	2783 2784	9/1/2016	PS #5 Generator Inspection and Test - Weekly	flun gargerates hard test accordated	Comp
	2954	10/3/2016	PS #5 Generator Inspection and Load Test - Monthly PS #5 Generator Inspection and Test - Weekly	Ran generator load test completel	Comp
	2955	10/1/2016	PS #5 Generator Inspection and Test - Weekly		Compl
	2954	10/1/2016	PS #5 Generator Inspection and Test - Weekly		Compl
	2957	10/30/2016	PS #5 Generator Inspection and Test - Weekly	Load test completel Battery life is not good or charging system is	Compl
-	2958 3132	10/11/2016	PS #5 Generator Inspection and Load Test - Monthly PS #5 Generator Inspection and Test - Weekly	not charging! I sless starting	Compl
	3133	11/1/2016	PS #5 Generator Inspection and Test - Weekly		Compl
	3134	11/1/2016	PS #5 Generator Inspection and Test - Weekly		Compl
	3135	11/1/2016	PS #5 Generator Inspection and Test - Weekly		Compl
	3136	11/28/2016	PS #5 Generator Inspection and Test - Weekly		Compl
	3137	10/13/2016	PS 65 Generator Inspection and Load Yest - Monthly Battery for the emergency generator needs to be	Replace the old battery with a new battery station 5 had a dead battery to find that all of the battery's were outdated 2007 virtage,	Compl
	3326	12/5/2016	replaced, outdated vintagel 2007 PS 85 Generator Inspection and Test - Weekly	operating normal again. I	Compl
	3329	12/20/2016	PS #5 Generator Inspection and Test - Weekly PS #5 Generator Inspection and Test - Weekly	Ran generator load test todayl	Compl
	3328	12/1/2016	PS #5 Generator Inspection and Test - Weekly	Work Completed.	Compl
4	3329	12/29/2016	PS #5 Generator Inspection and Test - Weekly		Compl
	3330	12/1/2016	P8 #5 Generator Inspection and Load Test - Monthly	Wark Completed.	Compl
	2798	9/7/2016	Exercise valves		Compl
Piping and Velves PS 5 Pump 1	1395	2/29/2016	PS #5 Pump 1 PM - Quarterly	Grease the pump and motor	Compl

	2579	8/11/2016	P8 #5 Pemp 1 PM - Quarterly		Comple
1	3138	11/4/2016	P8 #5 Pump 1 PN - Quarterly		Comple
PS 5 Pump 2	1356	2/29/2016	PS #5 Pump 2 PM - Quarterly	Grease the pump and motor	Comple
	2040	5/26/2016	PS #5 Pump 2 PM - Quarterly	and the party and these	Comple
	2589	8/11/2016	P5 #5 Pump 2 PM - Quarterly		Comple
	3139	11/4/2016	PS #5 Pump 2 PM - Quarterly		Comple
	3189	9/30/2016	Pump 2 has low flow rate do to being air bound	ES,RC arrived at location 1person went down bled pump, then ran	Comple
	9198	516015010		pump now flow rate has returned to normal	Jones
			Install the new air diffuser to station 5 Wet well,		
	10000	0.000.000	fabricate new supports to allow mounting of new air	Completed the new installation of air blower system inside station	
Reliant Aeration Diffusor	2103	4/11/2016	blower inside the building. Also mount air tubing thru	5 and fabricate the installation of the air supply hose inside conduit	Comple
				to enter the wet well below the cover!	
			side of building outside and underground		
	2116	4/20/2016	Inspection of wetwell perator for debris and grease	Opened webwell for debris and grease take picture and document	Comple
	2111		inspection of meaning delates for courts and greate	on DO forms	o empire
				We raised the diffuser about 14 inches turned air back on cycled	
		********	Pump 2 is running but not pumping, suspect that the	the pump 4 times we think that the diffuser was below the bell of	
	2716	7/26/2016	pump is ragged up or air bound,	the intake of the pump and filling with air, causing the pump to go	Comple
			purp is region to an estima,	air bound.	
PS 5 Sump Pump	1854	3/3/2016	Company or had not complete	BY DOSTIO.	O-mat.
Pa a sump Pump			Sump pump on but not pumping		Comple
	3019	10/24/2016	Sump Pump running but not pumping.	Replaced sump pump in P8 5	Comple
P8 5 Wef Well	1452	1/8/2018	Check manhole for debris	Opened manhole inspection of debris	Cemple
	1485	1/21/2016	Station 5 wetwell cleaning	Lowered vacuum pipe removed debris from wetwell	Comple
	1738	2/28/2016	Wetwell inspection	Largely occupied by debris	Comple
			Check wetwell and drywell penetrations for aeration		
	1873	6/8/2016	ayatem		Comple
	1674	2000010		Decomentation	Canala
	1874	3/1/2016	Drywell penetration line to wetwell	Documentation	Comple
	1104	3/3/2016	Clean wetwell with windriver	Vactored wetwell of debris	Comple
	1946	3/1/2016	Inspection of webwell		Comple
	1962	3/29/2016	Wetwell Inspection	Webwell Inspected, 100% covered, Cleaning required	Comple
1	2105	4/13/2016	Windriver in to clean webwell	Vactored wetwell of debris, then installed aerator in wetwell then a	Comple
	2100		The state of the s	bit later electrician finished wiring aerator motor and turn on	- Davidage
	2113	4/14/2016	Inspection of wetwell aerator and debris	Opened manhole inspected wetwell for debris and aerator working	Comple
	2240	5/1/2016	Inspection of wetwell for debris - PS 5		Comple
	2290	5/16/2016	Inspection	Monitor debris accumulation	Comple
	2445	6/8/2016	Inspection of webwell for debris	Opened webwell for inspection of debris 0 % debris	Comple
	2685	7/14/2016	Wetwell inspection	Wetwell Inspected. Little to no surface solids present	Comple
	3191	9/30/2016	Inspection of wetwell for debris,	Inspection of webwell,	Comple
	3206	10/5/2014	Wetwell Inspected	Wetwell Inspected. About 25% of debris on surface level	Comple
_	3256	10/26/2016	Vaccum out floatables in wet well with windriver	Vac out wet well scum with wind river	Comple
P8 6	1189	1/13/2014	P8 #6 Inspection - Monthly		Comple
	1366	2/1/2016	PS #6 Inspection - Monthly		Comple
	1541	3/21/2016	PS #6 Inspection - Monthly		Comple
	1041	SEATING 19	Pump 182 need safety mesh installed on the pump	Installed on the pump frame of pumps 182 safety mesh to prevent	Some
	1741	2/29/2016			Comple
	1911	204 400 444	trane	the possibility of accident of rotating parts.	- 1
	1784	4/14/2016	P8 #6 Inspection - Monthly		Comple
	2010	5/4/2016	PS #6 Inspection - Monthly		Comple
	2167	6/1/2016	PS #6 Inspection - Monthly		Comple
	2372	7/1/2016	PS #6 Inspection - Monthly		Complet
	2465	6/18/2016	Pump low gpm	Dragged pump 2	Complet
	2546	8/1/2016	PS #6 Inspection - Monthly	Dingger prints a	Comple
	2762	9/1/2016	PS #6 Inspection - Monthly		
	2192	3/1/2016	Pa We inspection - Monthly		Comple
		The second second		Assisted by Eric Sutton we checked out the dry well condition and	
\	2936	11/23/2016	P5 #6 Inspection - Monthly	grease the pump and motor check out the sump pump operations.	Comple
				All good at this time,	
/	3105	11/4/2016	PS #6 Inspection - Monthly		Comple
V/	3338	12/29/2016	PS #6 Inspection - Monthly	Unable to see Wetwell	Comple
P8 6 Building	1935	3/17/2016	Safety audit iten 34 & 37		Comple
PS & Burang	1835	2417/2016		Safety by choice	Compile
	2244	5/1/2016	Checking high drywell floats at sump area high floats		Comple
			failed to reach scada		
				Brian cored a hole in 2nd level close to ceiling which was about 18"	
	****	Tuesda.	Seed of Building of and the account of		Parent.
	2628	7/6/2016	Installation of gridbon corator	deep at ground level, we the installed pvc pipe ran earator hose	Comple
				thru pipe, lowered earator and turned on. Black filled trench	
				Measurement of date is 3 ML-11 actual elements in the fact too	
	2698	7/18/2016	Measurement of girls bathroom door	Measurement of door is 3.0%-11 actual clearance is two foot ten	Comple
				and a half, by six ten and a half	
				Assisted by JG &PO - found leak of approx 5 to 10 gallons inside	
		and the same of	200000000000000000000000000000000000000	building on discharge tubing (existing tube). Tube was brittle and	
	2708	7/23/2016	Ferrie ohleride feed system leak	broke. Use drum pump to empty 5 gal pail and then hosed down	Complet
W/				walls and floors of all residual chemical. (All 4 levels). Reconnect	
v				and test ok.	
PS 6 Generator	1217	1/5/2016	P5 #6 Generator Inspection and Test - Weekly	Ran generator load test completel	Comple
. Journal				Power loss on 1/10 /16 the emergency generator ran for 4 hours	
,	1218	1/14/2016	PS #6 Generator Inspection and Test - Weekly		Comple
	4000	********		under lead , ran today no lead!	
	1219	1/19/2016	PS #6 Generator Inspection and Test - Weekly	Ran generator no load teday!	Comple
	1220	1/26/2016	PS #6 Generator Inspection and Test - Weekly		Comple
	1221	1/5/2016	PS #5 Generator Inspection and Load Test - Monthly	Ran generator load test complete!	Complet
	1408	2/1/2016	PS #5 Generator Inspection and Load Test - Monthly		Complet
	1409	2/2/2016	PS #6 Generator Inspection and Test - Weekly	No load	Complet
	1410				Complet
		2/12/2016	P8 #6 Generator Inspection and Test - Weekly	Ran generator load test complete	
	1411	2/17/2016	PS #5 Generator Inspection and Test - Weekly		Complet
		2/21/2016	P8 #6 Generator Inspection and Test - Weekly	No load	Complet
	1412	3/4/2016	PS #5 Generator Inspection and Load Test - Monthly	Ran generator load test completel	Complet
			PS #5 Generator Inspection and Test - Weekly	Ran generator no load today!	Comple
	1569				
	1569 1571	3/11/2014		Ran generator no load teday!	Comple
	1569 1571 1572	3/11/2016 3/16/2016	PS #6 Generator Inspection and Test - Weekly		Comple
	1569 1571 1572 1573	3/11/2016 3/16/2016 3/1/2016	PS #5 Generator Inspection and Test - Weekly PS #5 Generator Inspection and Test - Weekly	-	
	1569 1571 1572 1573 1817	3/11/2016 3/16/2016	PS #6 Generator Inspection and Test - Weekly	•	
	1569 1571 1572 1573	3/11/2016 3/16/2016 3/1/2016	PS #5 Generator Inspection and Test - Weekly PS #5 Generator Inspection and Test - Weekly		Comple
	1569 1571 1572 1573 1817 1820	3/11/2016 3/16/2016 3/1/2016 3/20/2016 4/20/2016	PS #8 Generator Inspection and Test - Weekly		Comple Comple
	1569 1571 1572 1573 1573 1817 1820 1821	3/11/2016 3/16/2016 3/1/2016 3/20/2016 4/20/2016 5/12/2016	PS #8 Generator Inspection and Test - Weekly	weakly generator run	Comple Comple Comple
	1569 1571 1572 1573 1573 1817 1820 1821 1822	3/11/2016 3/16/2016 3/12/2016 3/29/2016 4/20/2016 5/12/2016 4/12/2016	PS #5 Generator Inspection and Test - Weekly PS #5 Generator Inspection and Load Test - Monthly		Comple Comple Comple Comple
	1569 1571 1572 1573 1817 1820 1821 1822 2053	3/11/2016 3/16/2016 3/1/2016 3/20/2016 4/20/2016 5/12/2016 5/10/2016 5/10/2016	PS #5 Generator Inspection and Test - Weekly PS #5 Generator Inspection and Test - Weekly PS #6 Generator Inspection and Test - Weekly PS #5 Generator Inspection and Test - Weekly PS #6 Generator Inspection and Test - Weekly PS #6 Generator Inspection and Test - Weekly PS #6 Generator Inspection and Test - Monthly PS #6 Generator Inspection and Test - Weekly	weakly generator run	Comple Comple Comple Comple Comple
	1589 1571 1572 1573 1817 1820 1821 1822 2853 2954	3/11/2016 3/16/2016 3/1/2016 3/20/2016 4/20/2016 5/12/2016 4/12/2016 5/10/2016 5/24/2016	PS #8 Generator Inspection and Test - Weekly PS #8 Generator Inspection and Test - Monthly PS #8 Generator Inspection and Test - Weekly PS #8 Generator Inspection and Test - Weekly	weakly generator run	Comple Comple Comple Comple Comple Comple
	1569 1571 1572 1573 1817 1820 1821 1822 2053	3/11/2016 3/16/2016 3/1/2016 3/20/2016 4/20/2016 5/12/2016 5/10/2016 5/10/2016	PS #5 Generator Inspection and Test - Weekly PS #5 Generator Inspection and Test - Weekly PS #6 Generator Inspection and Test - Weekly PS #5 Generator Inspection and Test - Weekly PS #6 Generator Inspection and Test - Weekly PS #6 Generator Inspection and Test - Weekly PS #6 Generator Inspection and Test - Monthly PS #6 Generator Inspection and Test - Weekly	weakly generator run	Comple Comple Comple Comple Comple

	2200	6/3/2016	PS #5 Generator Inspection and Load Test - Monthly		Completed
	2201	6/3/2016	PS #6 Generator Inspection and Test - Weekly	Service Incident Completed	Completed
	2202	6/1/2016	PS #6 Generator Inspection and Test - Weekly		Completed
	2203	6/1/2016	PS #6 Generator Inspection and Test - Weekly		Completed
	2204	6/21/2016	PS #6 Generator Inspection and Test - Weekly		Completed
	2205	7/15/2016	PS #6 Generator Inspection and Test - Weekly		Completed
	2400	7/0/2016	PS #6 Generator Inspection and Test - Weekly		Completed
	2401	7/14/2016	PS #6 Generator Inspection and Test - Weekly		Completed
	2402	7/1/2016	PS #6 Generator Inspection and Test - Weekly		Completed
	2403	7/31/2016	PS #6 Generator Inspection and Test - Weekly		Completed
	2404	7/8/2016	PS #5 Generator Inspection and Load Test - Monthly		Completed
	2593	8/7/2016	PS #6 Generator Inspection and Test - Weekly		Completed
	2594	8/16/2016	PS #6 Generator Inspection and Test - Weekly	Ran generator load test completel	Completed
	2595	8/16/2016	PS #6 Generator Inspection and Test - Weekly		Completed
	2595	8/1/2016	PS #6 Generator Inspection and Test - Weekly		Completed
	2597	8/25/2016	PS #6 Generator Inspection and Test - Weekly	Ran generator no load today!	Completed
	2598	8/1/2016	PS #5 Generator Inspection and Load Test - Monthly		Completed
	2790	9/12/2016	PS #5 Generator Inspection and Load Test - Monthly	Ran generator load test completel	Completed
	2791	9/6/2016	PS #6 Generator Inspection and Test - Weekly		Completed
	2792	9/1/2016	PS #6 Generator Inspection and Test - Weekly		Completed
	2793	\$12012016	PS #6 Generator Inspection and Test - Weekly		Completed
	2794	9/1/2016	PS #6 Generator Inspection and Test - Weekly		Completed
	2964	10/11/2016	PS #5 Generator Inspection and Load Test - Monthly	Ran generator load test todayl	Completed
	2965	10/3/2016	PS #6 Generator Inspection and Test - Weekly	ran generali sau test sauge	Completed
	2966	10/1/2016	PS #6 Generator Inspection and Test - Weekly		Completed
	2967	10/1/2016	P8 #8 Generator Inspection and Test - Weekly		Completed
	2968	10/30/2016	P8 #5 Generator Inspection and Test - Weekly		Completed
	3152	11/6/2016	PS #5 Generator Inspection and Test - Weekly		Completed
	3153	11/1/2016	PS #5 Generator Inspection and Test - Weekly		Completed
	3154	11/1/2016	PS #5 Generator Inspection and Test - Weekly		Completed
	3155	11/1/2016	PS #5 Generator Inspection and Test - Weekly		Completed
	3156	11/28/2016	PS #5 Generator Inspection and Test - Weekly		Completed
	3157	11/1/2016	PS #5 Generator Inspection and Load Test - Monthly		Completed
			Outdated battery for the emergency generator needs to	Remove the old battery and replace it with a new battery as the old	
	3231	10/13/2016	be replaced.	one is cutdated 2007 vintage!	Completed
	3336	12/5/2016	PS #5 Generator Inspection and Test - Weekly	Cite to Caracted 2001 Villages	Completed
	3337	12/20/2016	PS #5 Generator Inspection and Test - Weekly	Ran generator load test todayl	Completed
	3338	12/1/2016	PS #6 Generator Inspection and Test - Weekly	Work Completed.	Completed
- /	3339	12/29/2016	PS #6 Generator Inspection and Test - Weekly	Holk Collipsions.	Completed
₩	3340	12/1/2016	PS #5 Generator Inspection and Load Test - Monthly	Wark Completed.	Completed
PS 6 Gridbee Aerator	2643	7/1/2016	PS 6 Compressor dedicated circuit	Hork Geriphora.	Completed
PS 6 Piping and Valves	2769	9/7/2016	Exercise valves		Completed
P8 6 Pump 1	1397	2/29/2016	P8 #6 Pump 1 PM - Quarterly	Grease the pump and motor	Completed
raurumpi	1497	1/27/2016	Pump 1 pumping below average.	Pump deragged, Operating normally,	Corepleted
	1593	2/11/2016	Pump 1 GPM lower than average.	LOTO performed. Deragged pump 1	Completed
			Pump GPM less than usual. Averaging 500-560 GPM		
	1876	3/2/2016	comparitively to the usual 630 GPM, Requires Derag	deragged pump	Completed
	1941	3/19/2016		Assisted by Joe Raster, sump 1 de-ranged of debris. Test ok.	Completed
	1941 2041	3/19/2016 5/26/2016	Reduced output GPM PS #6 Pump 1 PM - Quarterly	Assisted by Jee Basler, pump 1 de-ragged of debris. Test ok.	Completed
			Reduced output GPM	Found no power at mcc. Perform LOTO Chit and found overfood relay had tripped. Reset. Then ehk pump, and it had lower than expected output. I solate and inspect. Pump needed to be cleaned	
	2041	5/26/2016	Reduced output GPM PS #6 Pump 1 PM - Quarterly	Found no power at mcc. Perform LOTO Chk and found overload relay had tripped. Reset. Then shk pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned also. Loto performed shut suction and discharge removed debris from	Completed
	2041	5/28/2016 4/1/2016	Reduced output GPM PS #6 Pump 1 PM - Quarterly No power	Found no power at mcc. Perform LOTO Chk and found overload relay had tripped. Reset, Then ohk pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned also.	Completed
	2941 2072 2226 2285 2383	5/26/2016 4/1/2016 5/2016 5/16/2016 5/21/2016	Reduced output GPM P8 #6 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate	Found no power at mcc. Perform LOTO Chit and found overfood relay had tripped. Reset. Then ohk pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned also. Loto performed shut suction and discharge removed debris from pump Loto pump 1 isolated valving to pump 1 and remove inspection	Completed Completed Completed Completed Completed
	2941 2072 2226 2285 2383 2393 2325	5/26/2016 4/1/2016 5/2016 5/16/2016 5/26/2016	Reduced output GPM PS #6 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow ,suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump tripped during power transfer	Found no power at moc. Perform LOTO Chk and found overfeed relay had tripped. Reset. Then shk pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned also. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection sover to remove reas and debris. Flew back to narmell. Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel.	Completed Completed Completed Completed Completed Completed Completed
	2941 2072 2226 2285 2303 2325 2342	5/26/2016 4/1/2016 5/16/2016 5/26/2016 5/26/2016 5/21/2016	Reduced output GPM P8 #6 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow , suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump tripped during power transfer Defragging of debria from impeller	Found no power at mcc. Perform LOTO Chit and found overfood relay had tripped. Reset. Then ahit pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned abic. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection sover to remove reas and debris. Flow back to narmell. Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump.	Completed Completed Completed Completed Completed Completed Completed Completed Completed
	2941 2972 2226 2285 2383 2393 2325 2342 2464	5/26/2016 4/1/2016 5/16/2016 5/21/2016 5/26/2016 5/26/2016 6/18/2016	Reduced output GPM PS 86 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow , suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump tripped during power transfer Defragging of debris from impeller Low gpm on pumps	Found no power at mcc. Perform LOTO Chit and found overfood relay had tripped. Reset. Then ahit pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned also. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection cover to remove race and debris. Flew book to normal! Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump. Dragged pumps 182 Siste.	Completed
	2941 2072 2226 2285 2383 2393 2342 2342 2664 2684	5/26/2016 4/1/2016 5/16/2016 5/21/2016 5/26/2016 5/31/2016 5/31/2016 6/32/2016 6/32/2016	Reduced output GPM PS #6 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow ,suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump tripped during power transfer Defragging of debria from impeller Low gpm on pumps GPM less than normal. In need of deragging	Found no power at mcc. Perform LOTO Chit and found overfood relay had tripped. Reset. Then ahit pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned abic. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection sover to remove reas and debris. Flow back to narmell. Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump.	Completed
	2941 2972 2226 2285 2383 2393 2325 2342 2464	5/26/2016 4/1/2016 5/16/2016 5/21/2016 5/26/2016 5/26/2016 6/18/2016	Reduced output GPM PS 86 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow , suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump tripped during gower transfer Defragging of debris from impeller Low gpm on pumps GPM less than normal. In need of deragging PS 86 Pump 1 PM - Quarterly	Found no power at mcc. Perform LOTO Chit and found overfood relay had tripped. Reset. Then ahit pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned also. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection cover to remove race and debris. Flew book to normal! Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump. Dragged pumps 182 Siste.	Completed
	2941 2972 2226 2285 2303 2325 2342 2464 2484 2581	5/28/2016 4/1/2016 5/16/2016 5/21/2016 5/21/2016 5/21/2016 5/31/2016 5/31/2016 6/27/2016 6/27/2016 6/11/2016	Reduced output GPM P8 86 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow , suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump bripped during power transfer Defragging of debris from impeller Low gpm on pumps GPM less than normal. In need of deragging PS #6 Pump 1 PM - Quarterly Pump functioning with less than normal GPM. In need of	Found no power at moc. Perform LOTO Chk and found overfeed relay had tripped. Reset. Then ahk pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned also. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection sover to remove reas and discharge valve removed debris from pump. Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump. Dragged pumps 182 Slote LOTO performed. Deragged pump 1	Completed
	2941 2972 2226 2285 2383 2325 2342 2464 2664 2581 2887	5/26/2016 4/1/2016 5/16/2016 5/26/2016 5/26/2016 5/26/2016 5/31/2016 6/31/2016 6/31/2016 6/31/2016 8/25/2016	Reduced output GPM PS #6 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow ,suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump tripped during power transfer Defragging of debria from impeller Low gpm on pumps GPM less than normal. In need of deragging PS #6 Pump 1 PM - Quarterly Pump functioning with less than normal GPM. In need of Deragging	Found no power at moc. Perform LOTO Chic and found overfood relay had tripped. Reset. Then ahic pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned abo. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection cover to remove reas and debris. Flow book to normal! Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump. Dragged pumps 182 & Bate. LOTO performed. Deragged pump 1	Completed
	2941 2972 2226 2285 2303 2325 2342 2464 2484 2581	5/28/2016 4/1/2016 5/16/2016 5/21/2016 5/21/2016 5/21/2016 5/31/2016 5/31/2016 6/27/2016 6/27/2016 6/11/2016	Reduced output GPM P8 86 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow , suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump bripped during power transfer Defragging of debris from impeller Low gpm on pumps GPM less than normal. In need of deragging PS #6 Pump 1 PM - Quarterly Pump functioning with less than normal GPM. In need of	Found no power at moc. Perform LOTO Chic and found overfood relay had tripped. Reset. Then ahic pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned abic. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection cover to remove reas and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump. Dragged pumps 182 8isto. LOTO performed. Deragged pump 1 LOTO performed. Deragged pump 1 LOTO performed. Deragged pump 1	Completed
	2941 2972 2226 2285 2383 2325 2342 2464 2664 2581 2887	5/26/2016 4/1/2016 5/16/2016 5/26/2016 5/26/2016 5/26/2016 5/31/2016 6/31/2016 6/31/2016 6/31/2016 8/25/2016	Reduced output GPM PS #6 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow ,suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump tripped during power transfer Defragging of debria from impeller Low gpm on pumps GPM less than normal. In need of deragging PS #6 Pump 1 PM - Quarterly Pump functioning with less than normal GPM. In need of Deragging	Found no power at moc. Perform LOTO Chic and found overfood relay had tripped. Reset. Then ehic pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned also. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection cover to remove reap and debris. Flow begit to named! Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump. Dragged pumps 182 8 isto LOTO performed. Deragged pump 1 LOTO performed. Deragged pump 1 LOTO performed. Deragged pump 1 LOTO performed and discharge valves opened inspection and discharge valves opened inspection plate removed debris from pump opened auction and inspection plate removed debris from pump opened auction and	Completed
	2941 2972 2226 2285 2303 2325 2342 2664 2684 2591 2887 3027	5/28/2018 4/1/2016 5/16/2016 5/21/2016 5/20/2016 5/21/2016 5/21/2016 5/21/2016 5/21/2016 5/21/2016 5/21/2016 5/21/2016 5/21/2016 5/21/2016 5/21/2016 5/21/2016 5/21/2016	Reduced output GPM P8 86 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow , suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump tripped during gower transfer Defragging of deerts from impeller Low gpm on pumps GPM less than normal. In need of deragging PS 86 Pump 1 PM - Quarterly Pump functioning with less than normal GPM. In need of Deragging GPM less than normal. In need of derag Deragging	Found no power at moc. Perform LOTO Chk and found overfood relay had tripped. Reset. Then ahk pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned abo. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection sover to remove rope and debris. Flew back to normall. Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump. Dragged pump 182 Slote LOTO performed. Denagged pump 1 LOTO performed abut suction and discharge valves epesed	Completed
	2941 2972 2226 2285 2303 2325 2342 2464 2484 2581 2887 3027 3059 3149	5/28/2016 4/1/2016 5/16/2016 5/26/2016 5/26/2016 5/26/2016 5/21/2016 6/27/2016 6/27/2016 8/25/2016 9/1/2016 9/1/2016 11/4/2016 11/4/2016 10/13/2016	Reduced output GPM PS 86 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow , suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump tripped during power transfer Defragging of debria from impellor Low gpm on pumps GPM less than normal. In need of deragging PS #6 Pump 1 PM - Quarterly Pump functioning with less than normal GPM. In need of Deragging GPM less than normal. In need of derag Deragging The second of the pump 1 pm - Quarterly Pump 1 pm - Quarterly Pump 1 is pumping slower than normal suspect that the pump is plugged with rags and debrie,	Found no power at moc. Perform LOTO Chic and found overfood relay had tripped. Reset. Then ehic pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned also. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection sover to remove rogs and debris. Flew back to normal! Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump. Dragged pump 182 Sloto LOTO performed. Denagged pump 1 LOTO performed. Denagged pump 1 Loto performed ahut suction and discharge valves epened inspection plate removed debris from pump apened auction and discharge valves primed pump now normal flow 650ppm. LOTO the pump and remove all the rags and debris from impeller. Fleess back to normal now. Assistance by John Currier, Rick Clark	Completed
V	2941 2972 2285 2285 2303 2325 2342 2644 2581 2887 3027 3050 3140 3226 3549	5/28/2016 4/1/2016 5/16/2016 5/26/2016 5/26/2016 5/26/2016 5/27/2016 6/27/2016 6/27/2016 8/26/2016 9/15/2016 9/15/2016 11/M/2016 11/M/2016 12/8/2016	Reduced output GPM PS 86 Pump 1 PM - Quarterly No power Deragged pump 81 do to low flow rate Low flow , suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump tripped during power transfer Defragging of debris from impeller Low gpm on pumps GPM less than normal. In need of deragging PS 86 Pump 1 PM - Quarterly Pump functioning with less than normal GPM. In need of Deragging GPM less than normal. In need of derag Deragged pump 1 low flow rate PS 86 Pump 1 PM - Quarterly Pump 1 is pumping slower than normal suspect that the pump is plugged with rags and debris, Pump running at \$88GPM. Derag needed	Found no power at moc. Perform LOTO Chic and found overfood relay had tripped. Reset. Then ehic pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned also. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection cover to remove reap and debris. Flow begit to normal! Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump. Dragged pumps 182 8 bits. LOTO performed. Denagged pump 1 LOTO performed. Denagged pump 1 LOTO performed and discharge valves opened inspection plate removed debris from pump opened auction and discharge valves primed pump now normal flow 650 gpm. LOTO the pump and remove all the rags and debris from impeller. Flows back to normal now. Assistance by John Currier, Rick Clark LOTO performed. Denagged pump 1	Completed
P3 6 Pump 2	2941 2972 2226 2285 2303 2325 2342 2464 2484 2581 2887 3027 3059 3149	5/28/2016 4/1/2016 5/16/2016 5/26/2016 5/26/2016 5/26/2016 5/21/2016 6/27/2016 6/27/2016 8/25/2016 9/1/2016 9/1/2016 11/4/2016 11/4/2016 10/13/2016	Reduced output GPM PS 86 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow , suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump tripped during power transfer Defragging of debria from impellor Low gpm on pumps GPM less than normal. In need of deragging PS #6 Pump 1 PM - Quarterly Pump functioning with less than normal GPM. In need of Deragging GPM less than normal. In need of derag Deragging The second of the pump 1 pm - Quarterly Pump 1 pm - Quarterly Pump 1 is pumping slower than normal suspect that the pump is plugged with rags and debrie,	Found no power at moc. Perform LOTO Chic and found overfood relay had tripped. Reset. Then ahic pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned abic. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection sover to remove reap and debris. Flow book to normal! Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in pared. Loto performed removed debris from pump. Dragged pumps 182 Slote LOTO performed. Denagged pump 1 LOTO performed. Denagged pump 1 Loto performed abut suction and discharge valves epened inspection plate removed debris from pump opened auction and discharge valves primed pump and remove all the rags and debris from impeller. Flows back to normal now. Assistance by John Currier, Rick Clark LOTO performed. Denagged pump 1 Grease the pump and motor	Completed
P3 6 Pump 2	2941 2072 2285 2285 2303 2325 2342 2644 2581 2887 3027 3050 3140 3226 3549 1338 1726	5/26/2016 4/1/2016 5/16/2016 5/16/2016 5/26/2016 5/26/2016 5/31/2016 5/31/2016 5/31/2016 5/31/2016 5/31/2016 5/31/2016 5/31/2016 5/31/2016 11/4/2016 11/4/2016 12/3/2016 12/3/2016 12/3/2016 12/3/2016 12/3/2016 12/3/2016 12/3/2016	Reduced output GPM PS 86 Pump 1 PM - Quarterly No power Deragged pump 81 do to low flow rate Low flow , suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump tripped during power transfer Defragging of debris from impeller Low gen on pumps GPM less than normal. In need of deragging PS 86 Pump 1 PM - Quarterly Pump functioning with less than normal GPM. In need of Deragging GPM less than normal. In need of derag Deragged pump 1 low flow rate PS 86 Pump 1 PM - Quarterly Pump 1 is pumping slower than normal suspect that the pump is plagged with rags and debris, Pump running at S88GPM. Derag needed PS 86 Pump 2 PM - Quarterly Low flow from pump need to be deragged	Found no power at moc. Perform LOTO Chit and found overfoad relay had tripped. Reset. Then ehit pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned abo. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection cover to remove rags and detris. Flew begit to normal! Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump. Dragged pumps 182 8 bits. LOTO performed. Deragged pump 1 LOTO performed. Deragged pump 1 LOTO performed abut suction and discharge valves opened inspection plate removed debris from pump opened suction and discharge valves primed pump now normal flow 650gpm. LOTO the pump and remove all the rags and debris from impeller. Flows back to normal now. Assistance by John Currier, flick Clark LOTO performed. Deragged pump 1 Grease the pump and motor Loto performed removed inspection put deragged pump checked that of pump now reading 653	Completed
P3 6 Purg 2	2941 2972 2226 2285 2303 2325 2342 2464 2591 2887 3027 3059 3140 3226 3549 1393 1726	5/28/2018 4/1/2016 5/16/2016 5/26/2016	Reduced output GPM P8 86 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow , suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump tripped during gower transfer Defragging of debris from impeller Low gpm on pumps GPM less than normal. In need of deragging PS 86 Pump 1 PM - Quarterly Pump functioning with less than normal GPM. In need of Deragging GPM less than normal in need of derag Deragged pump 1 low flow rate PS 86 Pump 1 PM - Quarterly Pump 1 is pumping slower than normal suspect that the pump is plugged with rags and debris, Pump running at \$880PM. Derag needed PS 86 Pump 2 PM - Quarterly Low flow from pump need to be deragged Derag	Found no power at moc. Perform LOTO Chit and found overfood relay had tripped. Reset. Then ahit pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned abo. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection sover to remove rogs and debris. Flew both to normal! Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump. Dragged pumps 182 Slote LOTO performed. Denagged pump 1 LOTO performed. Denagged pump 1 Loto performed abut suction and discharge valves epened inspection plate removed debris from pump opened auction and discharge valves primed pump now normal flow 650ppm. LOTO the pump and remove all the rags and debris from impeller. Flews back to normal now. Assistance by John Curnier, Rick Clark LOTO performed. Denagged pump 1 Grease the pump and motor. Loto performed removed inspection part denagged pump the clark clark pump and motor.	Completed
P3 6 Purg 2	2941 2072 2226 2285 2303 2325 2342 2464 2484 2581 2887 3027 3050 3140 3226 3549 1398 1726 1893 2042	6/28/2018 4/1/2016 5/16/2016 5/16/2016 5/26/2016 5/26/2016 5/26/2016 5/27/2016 6/27/2016 6/27/2016 8/26/2016 11/2016 9/23/2016 11/2016 11/2016 12/2016 12/2016 12/2016 12/2016 12/2016 12/2016 12/2016 12/2016 12/2016 12/2016 12/2016 12/2016 12/2016 12/2016 12/2016 12/2016	Reduced output GPM P8 86 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow , suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump bripped during power transfer Defragging of debris from impelier Low gpm on pumps GPM less than normal. In need of deragging PS #6 Pump 1 PM - Quarterly Pump functioning with less than normal GPM. In need of Deragging GPM less than normal. In need of derag Deragged pump 1 low flow rate PS #6 Pump 1 PM - Quarterly Pump 1 is pumping slower than normal suspect that the pump is plugged with rags and debris, Pump running at \$88 GPM, Darag needed PS #6 Pump 2 PM - Quarterly Low flow from pump need to be deragged Derag PS #6 Pump 2 PM - Quarterly Low flow from pump need to be deragged	Found no power at moc. Perform LOTO Chit and found overfoad relay had tripped. Reset. Then ahit pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned also. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection cover to remove rogs and debris. Flew back to normal! Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump. Dragged pumps 182 8late LOTO performed. Denagged pump 1 LOTO performed. Denagged pump 1 Loto performed shut suction and discharge valves epened inspection plate removed debris from pump opened auction and discharge valves primed pump now normal flaw 650.ppm LOTO the pump and remove all the rags and debris from impeller. Flows back to normal now. Assistance by John Currier, Rick Clark LOTO performed. Denagged pump 1 Grease the pump and motor Loto performed removed inspection part denagged pump checked flaw of pump now reading 853. Pump 2 LOTO performed. Denagged pump checked	Completed
P3 6 Purg 2	2941 2972 2226 2285 2303 2325 2342 2464 2591 2887 3027 3059 3140 3226 3549 1393 1726	5/28/2018 4/1/2016 5/16/2016 5/26/2016	Reduced output GPM P8 86 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow , suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump tripped during gower transfer Defragging of debris from impeller Low gpm on pumps GPM less than normal. In need of deragging PS 86 Pump 1 PM - Quarterly Pump functioning with less than normal GPM. In need of Deragging GPM less than normal in need of derag Deragged pump 1 low flow rate PS 86 Pump 1 PM - Quarterly Pump 1 is pumping slower than normal suspect that the pump is plugged with rags and debris, Pump running at \$880PM. Derag needed PS 86 Pump 2 PM - Quarterly Low flow from pump need to be deragged Derag	Found no power at moc. Perform LOTO Chit and found overfoad relay had tripped. Reset. Then ehit pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned abo. Loto performed shut suction and discharge removed debris from pump Loto pump 1 isolated valving to pump 1 and remove inspection cover to remove reap and debris. Flow begit to normal! Loto performed shut suction and discharge valve removed debris from pump Reset breaker in panel Loto performed removed debris from pump Dragged pumps 182 8isto LOTO performed. Deragged pump 1 LOTO performed. Deragged pump 1 LOTO performed shut suction and discharge valves opened inspection plate removed debris from pump opened auction and discharge valves primed pump now normal flow 650gpm LOTO the pump and remove all the rags and debris from impeller. Flows back to normal now. Assistance by John Currier, Rick Clark LOTO performed. Deragged pump 1 Grease the pump and motor Loto performed removed inspection port deragged pump checked flow of pump now reading 853 Pump 2 LOTO performed. Deragged pump 3	Completed
P3 6 Purp 2	2941 2072 2226 2285 2303 2325 2342 2484 2581 2687 3027 3050 3140 3226 3549 1726 1833 2042 2097 2227	6/28/2018 4/1/2016 5/16/2016 5/16/2016 5/26/2016 5/26/2016 5/26/2016 5/26/2016 5/26/2016 5/27/2016 5/27/2016 5/27/2016 5/27/2016 5/27/2016 5/27/2016 5/27/2016 5/27/2016 11/4/2016 12/8/2016 12/8/2016 2/25/2016 5/25/2016 5/25/2016 5/25/2016 5/25/2016 5/25/2016 5/25/2016	Reduced output GPM P8 86 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow , suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump bripped during power transfer Defragging of debris from impelier Low gpm on pumps GPM less than normal. In need of deragging PS #6 Pump 1 PM - Quarterly Pump functioning with less than normal GPM. In need of Deragging GPM less than normal. In need of derag Deragged pump 1 low flow rate PS #6 Pump 1 PM - Quarterly Pump 1 is pumping slower than normal suspect that the pump is plugged with rags and debris, Pump nunsing at \$86QPM, Darag needed PS #6 Pump 2 PM - Quarterly Low flow from pump need to be deragged Derag PS #6 Pump 2 PM - Quarterly Low flow from pump need to be deragged Derag PS #6 Pump 2 PM - Quarterly Pump # 2 had low flow gpm Deragged pump # 2 do to low flow rate	Found no power at moc. Perform LOTO Chit and found overfoad relay had tripped. Reset. Then ehit pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned also. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection cover to remove rogs and debris. Flew back to normal! Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump. Dragged pumps 182 Slote LOTO performed. Denagged pump 1 LOTO performed. Denagged pump 1 Loto performed shut suction and discharge valves epened inspection plate removed debris from pump opened suction and discharge valves primed pump new normal flaw 650.ppm LOTO the pump and remove all the rags and debris from impeller. Flows back to normal now. Assistance by John Currier, Rick Clark LOTO performed. Denagged pump 1 Loto performed memove inspection part denagged pump checked flaw of pump now reading 853 Pump 2 LOTO performed, Denagged pump Loto performed removed inspection part denagged pump checked flaw of pump now reading 853 Pump 2 LOTO performed, Denagged pump Loto performed then denagged pump Loto performed shut suction and discharge valve removed debris from pump	Completed
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V	2941 2072 2226 2285 2203 2325 2342 2484 2581 2887 2027 3059 3149 3226 3549 1333 1726 1933 1726 1933 2042 2097 2227 2245 2465 2502 2677 3141 1453 1739 1800 2106	5/28/2018 4/1/2016 5/16/2016 5/26/2016 5/26/2016 5/26/2016 5/26/2016 5/26/2016 5/26/2016 5/26/2016 5/26/2016 5/26/2016 5/27/2016 5/27/2016 5/27/2016 5/27/2016 5/27/2016 5/27/2016 11/4/2016 12/8/2016 12/8/2016 12/8/2016 5/28/2016	Reduced output GPM P8 86 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow , suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump bripped during power transfer Defragging of debris from impelier Low gpm on pumps GPM less than normal. In need of deragging PS 86 Pump 1 PM - Quarterly Pump functioning with less than normal GPM. In need of Deragging GPM less than normal. In need of derag Deragging GPM less than normal. In need of derag Deragging GPM less than normal lin need of derag PS 86 Pump 1 PM - Quarterly Pump 1 is pumping slower than normal suspect that the pump is plugged with rags and debris, Pump nunsing at 584GPM. Darag needed PS 86 Pump 2 PM - Quarterly Low flow from pump need to be deragged Derag PS 85 Pump 2 PM - Quarterly Pump # 2 had low flow gpm Deragged pump # 2 do to low flow rate Defragging of debris from pump impeller GPM less than normal. In need of deragging PS 86 Pump 2 PM - Quarterly Needs Derag PS 86 Pump 2 PM - Quarterly Needs Derag PS 86 Pump 2 PM - Quarterly Check watwell for debris Wet well / drywell penaltrations for aeration Windriver in to clean wetwell	Found no power at moc. Perform LOTO Chik and found overfoad relay had tripped. Reset. Then ehk pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned abo. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection cover to remove reap and debris. Flew back to normal! Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump. Dragged pumps 182 Siste. LOTO performed. Deragged pump 1 LOTO performed. Deragged pump 1 Loto performed shut suction and discharge valves epened inspection plate removed debris from pump opened suction and discharge valves primed pump new normal flaw 650gpm. LOTO the pump and remove all the rags and debris from impeller. Flows back to normal now. Assistance by John Currier, Rick Clark LOTO performed. Deragged pump 1 Grease the pump and motor. Loto performed removed inspection part deragged pump checked flow of pump now reading 851 Pump 2 LOTO performed. Deragged pump. Loto performed then deragged pump. Loto performed shut suction and discharge valve removed debris from pump. Loto performed removed debris from pump. Loto performed shut suction and discharge valve removed debris from pump. Loto performed shut suction and discharge valve removed debris from pump. Loto performed shut suction and discharge valve removed debris from pump. Loto performed fremoved debris from pump. Loto performed shut suction and discharge valve removed debris from pump. Loto performed shut suction and discharge valve removed debris from pump. Loto performed fremoved debris from pump. Loto performed shut suction and discharge valve removed debris from pump. Coto performed shut suction and discharge valve removed debris from pump. Loto performed removed debris from pump. Loto performed removed debris from pump. Loto performed removed debris from pump. Coto performed removed debris from pump. Coto perfo	Completed
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V	2941 2072 2226 2285 2203 2325 2342 2484 2581 2887 2027 3059 3149 3226 3549 1333 1726 1933 1726 1933 2042 2097 2227 2245 2465 2502 2677 3141 1453 1739 1800 2106	5/28/2018 4/1/2016 5/16/2016 5/26/2016 5/26/2016 5/26/2016 5/26/2016 5/26/2016 5/26/2016 5/26/2016 5/26/2016 5/26/2016 5/27/2016 5/27/2016 5/27/2016 5/27/2016 5/27/2016 5/27/2016 11/4/2016 12/8/2016 12/8/2016 12/8/2016 5/28/2016	Reduced output GPM P8 86 Pump 1 PM - Quarterly No power Deragged pump #1 do to low flow rate Low flow , suspect that the pump is ragged up. Station 6 pump 1 has low flow rate Pump bripped during power transfer Defragging of debris from impelier Low gpm on pumps GPM less than normal. In need of deragging PS 86 Pump 1 PM - Quarterly Pump functioning with less than normal GPM. In need of Deragging GPM less than normal. In need of derag Deragging GPM less than normal. In need of derag Deragging GPM less than normal lin need of derag PS 86 Pump 1 PM - Quarterly Pump 1 is pumping slower than normal suspect that the pump is plugged with rags and debris, Pump nunsing at 584GPM. Darag needed PS 86 Pump 2 PM - Quarterly Low flow from pump need to be deragged Derag PS 85 Pump 2 PM - Quarterly Pump # 2 had low flow gpm Deragged pump # 2 do to low flow rate Defragging of debris from pump impeller GPM less than normal. In need of deragging PS 86 Pump 2 PM - Quarterly Needs Derag PS 86 Pump 2 PM - Quarterly Needs Derag PS 86 Pump 2 PM - Quarterly Check watwell for debris Wet well / drywell penaltrations for aeration Windriver in to clean wetwell	Found no power at moc. Perform LOTO Chik and found overfoad relay had tripped. Reset. Then ehk pump, and it had lower than expected output. Isolate and inspect. Pump needed to be cleaned abo. Loto performed shut suction and discharge removed debris from pump. Loto pump 1 isolated valving to pump 1 and remove inspection cover to remove reap and debris. Flew back to normal! Loto performed shut suction and discharge valve removed debris from pump. Reset breaker in panel. Loto performed removed debris from pump. Dragged pumps 182 Siste. LOTO performed. Deragged pump 1 LOTO performed. Deragged pump 1 Loto performed shut suction and discharge valves epened inspection plate removed debris from pump opened suction and discharge valves primed pump new normal flaw 650gpm. LOTO the pump and remove all the rags and debris from impeller. Flows back to normal now. Assistance by John Currier, Rick Clark LOTO performed. Deragged pump 1 Grease the pump and motor. Loto performed removed inspection part deragged pump checked flow of pump now reading 851 Pump 2 LOTO performed. Deragged pump. Loto performed then deragged pump. Loto performed shut suction and discharge valve removed debris from pump. Loto performed removed debris from pump. Loto performed shut suction and discharge valve removed debris from pump. Loto performed shut suction and discharge valve removed debris from pump. Loto performed shut suction and discharge valve removed debris from pump. Loto performed fremoved debris from pump. Loto performed shut suction and discharge valve removed debris from pump. Loto performed shut suction and discharge valve removed debris from pump. Loto performed fremoved debris from pump. Loto performed shut suction and discharge valve removed debris from pump. Coto performed shut suction and discharge valve removed debris from pump. Loto performed removed debris from pump. Loto performed removed debris from pump. Loto performed removed debris from pump. Coto performed removed debris from pump. Coto perfo	Completed



- W	3207	10/5/2016	Wetwell Inspected	Wetwell Inspected, Little to no debris present	Compl
P8 9	1180	1/13/2016	PS #9 Inspection - Monthly	recived anapecies, citize to no debna present	Compl
1	1110			tested floats	Compl
	1367	2/1/2016	P8 #9 Inspection - Monthly		Compl
	1542	3/21/2016	P8 #9 Inspection - Monthly		Compl
	1785	4/14/2016	PS #9 Inspection - Monthly		Compl
	2011	5/4/2016	PS #9 Inspection - Monthly		Compl
	2168	6/1/2016	PS #9 Inspection - Monthly		Comp
	2373	7/1/2016	PS #9 Inspection - Monthly		Comp
	2547 2763	8/8/2016 9/1/2016	PS #9 Inspection - Monthly PS #9 Inspection - Monthly		Comp
	2763	W112016	Pa #9 inspection - monthly	Assisted by Eric Sutton we checked out the dry well condition and	Comp
	2937	11/23/2016	PS #9 Inspection - Monthly	grease the pump and moter, check out the sump pump operations, all good at this time.	Comp
	3106	11/7/2016	PS #9 Inspection - Monthly		Comp
	3309	12/29/2016	PS #9 Inspection - Monthly	Wetwell Inspected, No debris present	Comp
P0 0 P 1111	3431	11/30/2016	Anchor ladder lower level	Anchor ladder	Comp
PS 9 Building	2222	5/3/2016	Fall protection Safety audit item #40	Task completed from # 40 safety audit Checked drywell, moist appearance yet no flooding detected.	Сотр
1/	2709	7/24/2016	Drywell High Water Level Alarm. Alarm active for 26	Faulty alarm.	Comp
P8 9 Generator	1212	1/5/2016	seconds before auto-acknowledging itself, PS #9 Generator Inspection and Load Test - Northly	resny statit.	Comp
10 3 Ottiki alat	1213	1/5/2016	PS #9 Generator Inspection and Test - Weekly	Ran generator load test complete	Compl
				Power loss on 1/10/16 the emergency generator ran for 4 hours,	
	1214	1/14/2016	PS #3 Generator Inspection and Test - Weekly	under load, ran today no load!	Comp
	1215	1/19/2016	PS #9 Generator Inspection and Test - Weekly	Ran generator no load todayl	Compl
	1216	1/26/2016	PS #9 Generator Inspection and Test - Weekly		Comp
	1399	2/1/2016	PS #9 Generator Inspection and Load Test - Monthly		Cemp
	1400	2/2/2016	PS #9 Generator Inspection and Yest - Weekly	No load	Cemp
	1491	2/12/2016	PS #9 Generator Inspection and Yest - Weekly	Ran generator load test completel	Cemp
	1402	2/17/2016	PS #9 Generator Inspection and Test - Weekly		Cemp
	1403	2/21/2016	PS #9 Generator Inspection and Test - Weekly	No load	Cemp
	1476	1/14/2016	Emergency generator, black heater is over heating, needs replacement!	Replaced block heater on the emergency generator, scolant temperature back to normal with new heater installed parts we had in inventory!	Cempi
	1564	3/6/2016	PS #9 Generator Inspection and Load Test - Monthly	Generator LOAD-TEST performed, AC VOLTS - 609, AC AMPERES - 0, HERTZ - 60, OIL - 75, WATER TEMP - 170., BATTERY - 14.	Cempl
	1566	3/11/2016	PS #9 Generator Inspection and Test - Weekly	Ran generator no load today!	Compl
	1567	3/16/2016	PS #9 Generator Inspection and Test - Weekly	Ran generator no load todayl	Compl
	1568	3/22/2016	PS #9 Generator Inspection and Test - Weekly	Ran generator no load today!	Compl
	1811	4/12/2016	PS #9 Generator Inspection and Load Test - Monthly	Load test	Compl
	1812	3/29/2016	PS #9 Generator Inspection and Test - Weekly	Even man	Compl
	1815	4/20/2016	PS #9 Generator Inspection and Test - Weekly		Compl
	1816	5/12/2016	PS #9 Generator Inspection and Test - Weekly	weekly generator run	Compl
	2043	5/4/2016	PS #9 Generator Inspection and Load Test - Monthly		Compl
	2045	5/10/2016	PS F9 Generator Inspection and Test - Weekly		Compl
	2046	5/24/2016	PS #9 Generator Inspection and Yest - Weekly		Compl
	2047	5/1/2016	PS F9 Generator Inspection and Test - Weekly		Compl
	2194	6/3/2016	PS #9 Generator Inspection and Load Test - Monthly		Compl
	2195	6/7/2016	PS #9 Generator Inspection and Test - Weekly	Service Incident Completed	Compl
	2196	6/1/201G	PS #9 Generator Inspection and Test - Weekly		Compl
	2197	6/1/2016	PS #9 Generator Inspection and Test - Weekly		Compl
	2193	7/1/2016	PS #9 Generator Inspection and Test - Weekly		Compl
	2199	7/1/2016	PS #9 Generator Inspection and Test - Weekly		Compl
	2395	7/8/2016	PS #9 Generator Inspection and Load Test - Monthly		Compl
	2396	7/8/2016	PS #9 Generator Inspection and Test - Weekly		Compl
	2387	7/14/2016	P8 #9 Generator Inspection and Test - Weekly		Compl
	2398	7/1/2016	PS #9 Generator Inspection and Test - Weekly		Compl
	2259	7/31/2016	PS #9 Generator Inspection and Test - Weekly		Compl
	2583	8/1/2016	PS #9 Generator Inspection and Load Test - Monthly		Compl
-	2584	8/7/2016	PS #9 Generator Inspection and Test - Weekly	December 1 and 1 a	Compl
	2585	8/16/2016	PS #9 Generator Inspection and Test - Weekly	Ran generator load test completel	Compl
	2586	8/15/2016	PS #9 Generator Inspection and Test - Weekly	Que consenter no land tadard	Compl
	2587 2588	8/25/2016	PS #9 Generator Inspection and Test - Weekly	Ran generator no load todayl	Compl
	2785	8/29/2016 9/12/2016	PS #9 Generator Inspection and Test - Weekly PS #9 Generator Inspection and Load Test - Monthly	Ran generator no load today! Ran generator load test complete!	Compl
	2786	9/6/2016	PS #9 Generator Inspection and Load Test - Workly	nan generasir isab test compare:	Compl
	2787	9/1/2016	PS #9 Generator Inspection and Test - Weekly		Compl
	2788	8/20/2016	PS #9 Generator Inspection and Test - Weekly		Compl
	2789	9/1/2016	PS #9 Generator Inspection and Test - Weekly		Compl
	2959	10/11/2016	PS #9 Generator Inspection and Load Test - Monthly	Load test completel	Compl
	2960	10/3/2016	PS #9 Generator Inspection and Test - Weekly		Compl
	2961	10/1/2016	P3 #9 Generator Inspection and Test - Weekly		Compl
	2962	10/1/2016	PS #9 Generator Inspection and Test - Weekly		Compl
	2963	10/30/2016	PS #9 Generator Inspection and Test - Weekly		Compl
	3142	11/1/2016	PS #9 Generator Inspection and Load Test - Monthly		Compl
	3143	11/5/2016	PS #9 Generator Inspection and Test - Weekly		Compl
	3144	11/1/2016	PS #3 Generator Inspection and Test - Weekly		Compl
	3145	11/1/2016	PS #3 Generator Inspection and Test - Weekly		Compl
	3146	11/1/2016	PS #9 Generator Inspection and Test - Weekly		Compl
	3547	11/28/2016	PS #9 Generator Inspection and Test - Weekly		Comp
	3232	10/14/2016	Buttery for the emergency generator needs to be replaced, outdated vintagel 2007	Remove the old battery and replace it with a new battery operating normal again.	Compl
	3331	12/1/2016	PS #9 Generator Inspection and Load Test - Monthly	Work Completed.	Comp
	3332	12/5/2016	PS #9 Generator Inspection and Test - Weekly		Comp
	3333	12/21/2016	PS #9 Generator Inspection and Test - Weekly	Ran generator load test today!	Compl
M	3334	12/1/2016	PS #9 Generator Inspection and Test - Weekly	Wark Completed.	Compl
V	3335	12/29/2016	PS #9 Generator Inspection and Test - Weekly		Compl
3 9 GridBee Aerator	2627	715/2016	Installation of gridbee corater	Opened stanhole, cored holes, installed earafor, cleaned area . Earafor new operational	Compl
a codffee foods	2639	7/1/2016	P8 9 Aerater install Punch List		Compl
9 GridBee Aerator	2640	7/1/2016	PS #9 Aerator Compressor dedicated circuit		Comp!
9 Piping and Valves	2800	9/7/2016	Exercise valves		Compl

V(9 pump	1473 2048	1/13/2016 5/26/2016	Installed mesh safety guard on pump PS #9 Pump 1 PM - Quarterly	Eric,Rick,John wrapped pump 1 with mesh safety guard	Complet
	2589	8/11/2016	PS #9 Pump 1 PM - Quarterly		Complet
	3148	11/7/2016	PS #9 Pump 1 PM - Quarterly		Complet
	3251	10/22/2016	ID as pump 2 at station - not pumping	Assisted by Pat Owens and Kate Roosa backflush pump 2x and get to pump. Had to return to station an hour later. Perform LOTO and pull retating assy, and appears an eld float may be in the volute suction elbow. Need to pull lower insp port to try and remove.	Complet
\checkmark	3253	10/25/2016	Restricted suction line of pump 1, suspect that it is plugged with some large object, just below the pump.	Assisted by Jody at George, and John Currier. We removed from the pump base, a complete float switch, that entered from the wet well	Complet
PS 9 Pump 2	1405	2/29/2016	PS #9 Pump 2 PM - Quarterly	Grease the pump and motor	Complet
	1474	1/13/2016	Installed mesh safety guard on pump 2	Eric,Rick,John wrapped pump with mesh safety guard	Complet
	2049	5/26/2016	PS #9 Pump 2 PM - Quarterly		Complet
	2590	8/11/2016	PS #9 Pump 2 PM - Quarterly		Comple
w	3149	11/7/2016	PS #9 Pump 2 PM - Quarterly		Comple
PS 9 Sump Pump	2717	7/26/2016	Lower level inspection of moisture and sump pump,	We removed the debris from the impeller of the pump and flow is	Complet
	2829	8/1/2016	Operation. Visual inspection of sump pump	back to nermall Pump operating efficiently	Comple
1	2830	8/3/2016	Hi water alarm in station 9 dry well ,sump pump operating normally, but multiple alarms continue. Found to be faulty float!!	Lote central panels to repair the wiring of the high water alarm	Complet
P5 9 Wet Well	1454	1/8/2016	Check wetwell for debris	Opened manhole for inspection of debris	Comple
	1489	1/21/2016	Windriver in to clean webself	Lowered vacuum pipe removed debris from wetwell. Also tried pumping to the bottom of the wetwell but flow was to much for truck	Complet
	1740	2/29/2016	Wetwell inspection	Very light amount of debris	Comple
	1902	3/1/2016	Webwell / drywell penatrations for agration		Comple
	1963	3/29/2016	Wetwell inspection	Clear wetwell	Comple
	2243	5/4/2016	Inspection of webwell for debris	Opened wetwell for inspection of debris	Comple
	2291	5/16/2016	Inspection	Nonitor accumulation	Comple
,	2447	6/8/2016	Inspection of webwell for debris	Opened wetwell for inspection of debris 0% debris	Comple
V/	2687	7/14/2016	Wetwell inspection	Wetwell inspected. Little to no surface solids present	Comple
	3208	10/5/2016	Wetwell Inspected	Wetwell Inspected. Little to no debris present	Comple
P8 A	1191	1/13/2016	P8 #A Inspection - Monthly		Comple
1	1368	2/1/2016	PS #A Inspection - Monthly		Comple
	1543	3/21/2016	PS #A Inspection - Monthly		Comple
	1786	4/14/2016	PS AA Inspection - Monthly		Comple
	2012	5/4/2016	PS #A Inspection - Monthly		Comple
	2169	6/1/2016	PS #A Inspection - Monthly		Comple
	2374	7/14/2016	PS #A Inspection - Monthly		Comple
				Wetwell Inspection and visual inspection of drywell.	Comple
	2548	8/1/2016	PS #A Inspection - Monthly		Comple
	2764	9/1/2016	PS #A Inspection - Monthly		Comple
	2849	8/14/2016	Power failure	Contacted Hull light and monitored station	Comple
,	2938	11/23/2016	P8 #A Inspection - Monthly	Assisted by Eric Sutton we checked out the dry well condition and the sump pump operations, no grease fittings on station A as pumps are the submersible type, all good with sump, alarm and overall conditions good at this time.	Complet
. /	3107	11/7/2016	PS #A Inspection - Monthly		Complet
Y	3310	12/29/2016	PS #A Inspection - Monthly	Wetwell inspected. Debris level estimated at 3%	Comple
PS A. GridBee Aerator	1947	3/24/2016	Install of gridbee aerator, pvc pipe,digging of trench, cement,work at wetwell area	Dug trench from building to wetwell, chiseled 2" hole thru wetwell for pus pipe, ran aerator hose thru pipe into wetwell, coment all air holes inside wetwell and trench backfilled trench, mounted compressor on shelf.	Complet
V	2154	4/20/2016	Inspection of wetwell for debris and grease with aerator installed	Inspected wetwell very clean no debris or grease	Complet
PS A Building	2854	8/1/2016	Door expanded due to heat, Door won't open		Coreplet
PS A GridBee Aerator Compressor	1944	4/8/2016	Connect new 110 volt powered aerator to electric panel.	Glenn	Complet
J/	2108	4/14/2016	Inspection of webwell serator and debris	Opened manhele checked wetwell and aerator no delaris in wetwell and serator working to capacity	Comple
PS A Medem	1592	2/10/2016	Station in commisil at 4:30pm.	Assisted by Rick, check station at 5pm and AV chk'd at 6pm. Contact verizon, tisket number MANE38555. They said ok, but it was not. Came out of commfall at approx 8345pm. Unknown what corrected the issue	Complet
S A Piping and Valves	2801	9/7/2016	Exercise valves		Complet
P8 A Pump 1	1408	2/29/2016	PS A Pump 1 PM - Quarterly	Grease and inspect pump and motor assistance from John Currier.	Comple
	2050	5/26/2016	PS A Pump 1 PM - Quarterly		Comple
	2591	8/11/2016	PS A Pump 1 PM - Quarterly		Comple
	3150	11/7/2016	PS A Pump 1 PM - Quarterly		Comple
	1407	2/29/2016	PS A Pump 2 PH - Quarterly	Perform a p&m for pump and motor, greased the pump and motor	Comple
PS A Pump 2		2/25/2016 5/26/2016	PS A Pump 2 PN - Quarterly PS A Pump 2 PN - Quarterly	r choin a pain for purp and motor, greased the pump and motor	Comple
	2661 2592	8/11/2016	PS A Pump 2 PM - Quarterly PS A Pump 2 PM - Quarterly		Comple
- T			P8 A Pump 2 PM - Quarterly		Complet
	3151	11/7/2016	Back up sump pump not working corresion requires		
PS A Sump Pump	1290	3/1/2016	replacement of the pump,	discharge line plugged with debris.	Complet
		12/7/2016	High dry well alarm , sump pump not operating,	Assisted by Jody st George and Rick Clark, we checked pump operations and found that float switch was abuck restricted by the power cord rerouted the cord . Pump operating normally again.	Complet
1	3547	Tamzere.			
PS A Wet Well	3547	1/8/2016	Check wetwell for debris	Opened manhole for inspection of debris	Complet
PS A Wet Well					
PS A Wet Well	1448	1/8/2016	Check wetwell for debris	Opened manhole for inspection of debris Lowered vacuum pipe removed debris from wetwell also prossure washed silo and ladder pumped wetwell down vacuumed wetwell	Complet
PS A Wet Well	1448 1486	1/8/2016	Check wetwell for debris Windriver in to clean wetwell	Opened manhole for inspection of debris Lowered vacuum pipe removed debris from wetwell also pressure washed silo and ledder pumped wetwell down vacuumed wetwell down to bottom and removed all debris	Comple
PS A Wet Well	1448 1486 1735 1876	1/8/2016 1/21/2016 2/29/2016 3/8/2016	Check webwell for debris Windriver in to clean wetwell Webwell inspection Inspection for accessibility for webwell aeration blower	Opened manhole for inspection of debris Lowered vacuum pipe removed debris from wetwell also pressure washed silo and ladder pumped wetwell down vacuumed wetwell down to bottom and removed all debris Wetwell half full of debris	Complete Complete Complete Complete
P5 A Wet Well	1448 5486 1735	1/8/2016 1/21/2016 2/29/2016	Check wetwell for debris Windriver in to clean wetwell Wetwell imspection	Opened manhole for inspection of debris Lowered vacuum pipe removed debris from wetwell also pressure washed silo and ledder pumped wetwell down vacuumed wetwell down to bottom and removed all debris	Comple

P	5	AL	bet	well	
	\leftarrow	_			-

	2125	4/27/2016	Trial run on shutting off station A for project at station 3 discharge force main at water st and nantasket ave we have a 2 hr window on this project before turning station back on	Turned off stations 1,A, and 3 watch wetwell levels and turn back on before any SSOs the there a 2hr window for this project station 1 was fine and never went in high level alarm	Completed
	2237	5/4/2016	Inspection of wetwell for debris	Opened wetwell for debris	Completed
	2287	5/16/2016	Inspection and record conditions	Non needed	Completed
/	2441	6/8/2016	Inspection of wetwell for debris	Opened wetwell for inspection of debris 0% debris	Completed
V/	2682	7/14/2016	Wetwell inspection	Wetwell Inspected, Little to no debris present,	Completed
	3201	10/5/2016	Inspected Wetwell	Wetwell Inspected, Little to no debris present,	Completed
S D - DPW Stormwater Pump	1503	1/28/2016	Finish cement work in effluent gallery	Finish cement work, install emergency quick connect pipe	
	3267	10/28/2016	Monitor the pump at D street during high tidewater and heavy rain and wind, with the emergency pump ready to assist with the pump at D street!		Completed
PS D Building	1754	2/23/2016	Set trash pump do to encoming weather	Hooked up pump to station	Completed
	3010	9/2/2016	Brought 4" trash pump to station D for possible heavy rain for the weekend	Assembled trash pump for weekend for possible heavy rain	Completed
	3613	12/29/2016	Set up 4" trash pump for extra support due to weather	Eric Joe arrived at location set up pump for the duration of the weather	Completed
P8 D Heden	1708	2/22/2016	Pump station D in com feil	Called Verizon for a new ticket to work on station, they will be in touch	Completed
		2/23/2016	Pump station D in com fail	called verizon had them run test on station D which now wwpt can see the station from scada	Completed
PS D Wet Well	649	1/28/2016	Tide Gate Flapper hing damaged		Completed





Work Order Information

Date:

05/13/2016

Type:

Inspections

Status: Completed

Manhole ID: MH 20126

Priority:

Normal

Reason: Operational

Description of Issue

Description: Manhole Inspection

Notes:

Inspection of manhole interceptor for low and high flow

Actions Taken

Staff:

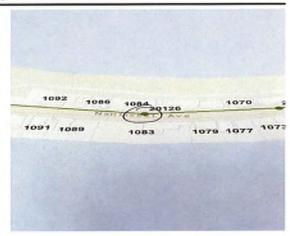
Eric Sutton

Service:

Opened manhole took pictures with GO PRO downloaded in file

Photos









Work Order Information

Date: 10/01/2016 Type:

Inspections

Status: Completed

Manhole ID: MH 20825

Priority:

Reason: Operational

Description of Issue

Normal

Description: Manhole Inspection

Notes:

Inspection of manhole do to a back-up call on 5 Eastern ave see D/O form sems back-up. Did

speak to homeowner telling her the street was fine plumber Ray Sarno on site

Actions Taken

Staff:

Eric Sutton

Service:

230pm ES,RC opened manhole 20825, line flowing freely which ends up at station 4

Photos



Work Order

Work Order Information

Date:

&CURRAN

10/11/2016

Type:

Inspections

Status: Completed

MH 20203 Asset:

Normal Priority:

Reason: Operational

Description of Issue

Description: In Pipe Bacteria Unit Inspection

Notes:

Actions Taken

Staff:

Eric Sutton

Service:

Es Jc opened manhole replaced bacteria bottle number 18

Photos







Work Order Information

Date: 10,

10/13/2016

Type:

Corrective Maintenance

Status: Completed

Asset:

PS 6 Pump 1

Priority:

Normal

Reason: Mechanical

Description of Issue

Description: Pump 1 is pumping slower than normal suspect that the pump is plugged with rags and debris,

Notes:

LOTO pump 1 and controls isolated the pump and remove the debris from the impeller

Actions Taken

Staff:

Joe Basler

Service:

LOTO the pump and remove all the rags and debris from impeller . Flows back to normal now.

Assistance by John Currier, Rick Clark

Photos



Shows the debris from the impeller removed,



Work Order - Grinder Pump Alarm

Hull Wastewater

Work Order Information

Date:

10/23/2016

Type:

Corrective Maintenance

Status: Completed

Asset:

Grinder Pump 37 ELM AVE

Priority: N

Normal

Reason: Operational

Serial # In Serial # Out Serial_In Serial_Out

Description of Issue

Description: Grinder Pump went into alarm.

Caller Name Christine Sullivan

Phone # 781 925 8877

Notes:

Actions Taken

Staff:

John Currier

Service:

LOTO Performed. Drained grinder pump pit into tote. Replaced malfunctioning Grinder Pump with

Repaired Grinder Pump.

Photos







Grinder Pump coming out





Work Order Information

Date:

10/27/2016

Type:

Inspections

Status: Completed

Asset:

Dig Safe Requests

Normal Priority:

Reason: Client Support

Dig Safe Information

Description: 20164306311 38 Channel Street. Sewer Markout

Pre Marked?

Yes

Tie Cards Available?

Yes

Requested By

Aquarion Water

Actions Taken

Staff:

John Currier

Labor Hours

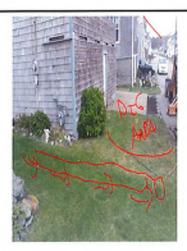
0.15

Service:

Marked Dig Safe

Photos







Asset

Work Order - Backup or Blockage Call

Hull Wastewater

Work Order Information

Date: 10/28/2016 Type: Corrective Maintenance

22 - WW sewers/pipes/force mains

Priority: Normal Reason: Service Call

Status: Completed

Description of Issue

Description: 25 Summit Ave.

Request by home owner, John King. Slow flow from house. Notes:

Actions Taken

Aram Varjarbedian Staff:

Inspect manholes 20982, 20985 and sure manhole/cleanout in bushes in between #33 and #37. No issues and flowing ok. house no 25, 29,33,37,37A all flow into a lie behind these houses. Clear Service:

and flowing. No other cleanout outside. Report back to homeowner.

Photos







Cleanout manhole in bushes.



APPENDIX C: COMPLETED CMOM AND I/I PROJECTS EXPENDITURES

2016 CMOM and I/I Expenditures

Contractor	Invoice Date	Category	Description of Work	Amount	Work Performed via
Kleinfelder	2/1/2016	Corrective	Research past sewer work, develop recommended scope and budget costs for addressing the unlined segments of the interceptor, identify locations in the interceptor system for performing limited CCTV inspection to check corrosion and condition	\$ 4,000.00	TOWN
Hub Construction	3/7/2016	Emergency	Emergency service connection repair to 5 Main Street (Lateral service on Vautrinot Avenue)	\$ 4,657.00	TOWN
Hub Construction	3/7/2016	Emergency	Emergency service connection repair at 34 Porazzo Road	\$ 3,540.00	TOWN
Hub Construction	3/7/2016	Corrective	Rebuilt sewer chimney and reset frame at 4-6 Gunrock Avenue. Replaced broken frame at Gunrock Avenue and Atlantic Avenue.	\$ 3,245.00	TOWN
Hub Construction	3/16/2016	Emergency	Emergency service connection repair at 4 South Street (replaced shallow culvert with PVC)	\$ 1,810.00	TOWN
Hub Construction	4/20/2016	Corrective	Replacement of sewer manholes at corner of Moreland Avenue and Bay Street, Marginal Road and 10 Moreland Ave. Involved resetting frames and covers, and repaving after manhole replacement. Also rebuilt sewer manholes at Pump Station #3 and 157 Nanatasket Avenue.	\$ 5,975.00	TOWN
Hub Construction	6/8/2016	Corrective	Replacement of broken frames and covers (with reset chimneys as needed) along Fairmont Way, Bay Street, Gun Rock Avenue and Damon Park Road.	\$ 7,110.00	TOWN
Hub Construction	6/10/2016	Corrective	Replaced frames and covers (and reset chimneys as necessary) along corner of Prospect and Newport Avenues, Touraine and Newport Avenues and 337 Newport Avenue	\$ 2,865.00	TOWN
Kleinfelder	6/28/2016	Preventative and Corrective	Review CCTV Tapes	\$ 2,000.00	TOWN
Ted Berry	9/8/2016	Emergency	Pump Station #3 Forcemain Repair - Construction	\$ 14,130.59	TOWN
Tighe & Bond	9/15/2016	Emergency	Pump Station #3 Forcemain Repair - Engineering	\$ 19,500.00	TOWN
Hub Construction	10/5/2016	Emergency	Service line repair at 5 Eastern Avenue	\$ 4,340.00	TOWN
Hub Construction	11/2/2016	Emergency	Service line repair at 26 Holbrook Street	\$ 972.00	TOWN
Hub Construction	11/16/2016	Emergency	Service line repairs at 60, 62 and 64 Holbrook Street	\$ 2,270.00	TOWN
Hub Construction	11/16/2016	Emergency	Service line repair at 152 Spring Street	\$ 2,865.00	TOWN
Contract Operator (W&C)	Calendar Year 2016	Corective	Grinder Pumps	\$ 20,842.54	W&C
Contract Operator (W&C)	Calendar Year 2016	Preventative and Corrective	Pump Station Repairs	\$ 36,687.38	W&C
Contract Operator (W&C)	Calendar Year 2016	Preventative and Corrective	Sewer line maintenance	\$ 25,346.35	W&C
			Town	\$ 79,279.59	
			Woodard & Curran - subcontractors, materials and repairs - not including W&C labor	\$ 82,876.27	
			TOTAL	\$ 162,155.86	



APPENDIX D: UNAUTHORIZED DISCHARGE SUMMARY

Date	2/19/16	3/15/16	3/29/16	4/14/16	5/14/16	6/7/16
Type of Asset	Home	Pump Station	Home	WWTF	Business	Home
Address	25 Main Street	Pump Station #3 (13 Rockland Circle)	28 Winthrop Avenue	WWTF (1111 Nantasket Avenue)	514 Nantasket Ave	35 Elm Avenue
Cause of Disphages	property litle/no pitch causing rags to accumulate in line.	open); Suspect failure of packing/packing gland. Subcontractor able to stop leak by	lateral discharges into manhole,	Operator Error - 12-inch pipe had not drained after use with the auxillary pumping system, and remaining sewage overflowed after pumping.	blockage on private property which affected multiple tennants. Sewage backed from a basement grease interceptor, and sump pump in basement pumped out liquid to the outside driveway	Staff responded to a home experienceing sewer back-up to find that a privately-owned grinder pump had malfunctioned and caused spillage into homeowners basement. The Board of Health and pump truck was dispatched to pump out chamber and was repaired on 6/8/16 by Rosano Davis.
If caused by blockage, what was blockage	Rags/Debris	N/A	Service connection blocked	N/A	Grease	N/A
If mechanical, when was the last inspection/failure date	N/A	3/30/2014	N/A	N/A	N/A	Unknown
Begin Time/Date	2/19/2016 9:15	3/15/2016 10:15	3/29/2016	4/14/2016 8:30	5/14/2016 14:30	6/7/2016 11:56
Stop Time/Date	2/19/2016 11:15	3/15/2016 10:16	3/29/2016	4/14/2016 8:32	5/14/2016 15:00	6/7/2016 13:30
Notification Source	Email	Email	Email	Call then Email	Phone Message	Email
Estimated release volume (gallons)	~5-10	~2-8	25-50	~50-75	20-30	Unknown
Method Used to Estimate Volume	Visual	Visual	Visual	Visual	Visual	N/A
Corrective action completed	dug up and repaired by Hub Construction	Lime applied to area around gate box; Gate box itself was vacuumed	Manhole obstruction initially worked on by plant staff, then had Rosano-Davis Pumping pump out/clean the manhole.	Lime applied to grassy area adjacent to spill	Sewer Dept checked sewer mains, and they were clear. Blockage was in private sewer line on property. Building owner contacted drain company to clear the line.	Advised owner to apply Lime; Rosano Davis pumped out sewage on 6/7 and returned on 6/8 to complete repairs to grinder pump.
Impact area Cleaned/disinfected?	NO	YES	YES	YES	Unknown	Unknown
Release to Town MS4?	NO	NO	NO	NO	YES	NO
Release to surface water	NO	NO	NO	NO	Unknown	NO

Date	7/26/16	12/19/16	12/30/16
Type of Asset	WWTF	Street	Business
Address	WWTF (1111 Nantasket Avenue)	205 Atlantic Avenue	26 Western Avenue
Cause of Discharge	box. As soon as the overflow was discovered, the pumps were put into hand operation mode, and lime was applied to the base of the surcharged distribution box. The SOP procedure for exercising influent pumps was reviewed by the team.	Hull Assistant Building Inspector, Bart Kelley, notified Hull WPCF of overflowing sewer manhole near 205 Atlantic Avenue. Upon arrival, the crew contacted Rosano-Davis septic company to pump the surcharged sewer line. The road surface was vacuumed and adjacent areas were cleaned and lime was applied. After the line was drained, and peak flow subsided, the main sewer line was jetted and 5 manholes were inspected.	On December 30, Hull WPCF staff responded to a sewer back-up at 26 Western Avenue. Upon arrival, it was determined that sewage was backing up into a detached garage. After further investigation, the upstream manhole was found to be surcharged and the downstream manhole was found to be flowing freely. On January 5, 2017, HUB Construction and Rasano Davis returned to unplug blockage in sewer pipe, and install cleanout port for improved maintenance outlet.
If caused by blockage, what was blockage	N/A	FOG	Debris/FOG in sewer main line
If mechanical, when was the last inspection/failure date	5/25/2013	N/A	N/A
Begin Time/Date	7/26/2016 10:00	12/19/2016 9:52	12/30/16 12:30pm
Stop Time/Date	7/26/2016 10:02	12/19/2016 10:15	12/30/2016 12:30pm
Notification Source	Email	Email	Email
Estimated release volume (gallons)	<20	250	360
Method Used to Estimate Volume	Visual	Visual/Rate of approximate flow and time	Visual & Calculated
Corrective action completed	Yes - area was cleaned and standard operator procedures were reviewed	Yes - 5 MH's and 700 feet of sewer pipe were cleaned as well as clearing blockage	Sewer blockage was cleared and a cleanout port was installed.
Impact area Cleaned/disinfected?	YES	YES	YES
Release to Town MS4?	NO	YES	NO
Release to surface water	NO	YES; Straits Pond	NO



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